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# 1-1 Color video monitors

## 19" PVM-20M4U (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

### Color Video Monitor

- HR Trinitron CRT assures a high resolution of 800 TV lines
- Adopts SMPTE-C standard phosphors
- Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals
- Beam current feedback circuit for stability in the color balance
- Optional Component Serial Digital Interface Kits BKM-101C (video)/102 (audio) available
- Switchable aspect ratio (4:3 and 16:9)
- Color temperature D65, D93 or user preset (3200 K to 10000 K) selectable
- On-screen display for adjustment/operation
- User preset function
- Underscan, Blue Only and H/V delay mode available
- Auto chroma/phase set-up<sup>\*1</sup>
- Accepts external sync
- Caption vision decoder (closed caption)
- Auto/manual degaussing
- Minimizes magnetic field emission
- Mountable into an EIA standard rack with the optional SLR-103A

Supplied accessories: 20-pin Remote Cable

Tally Label

AC Cord

AC Plug Holder

Operation Manual

Optional accessories: Component Serial Digital Interface Kit (video)

BKM-101C

Component Serial Digital Interface Kit (audio)

BKM-102

Serial Remote Control Kit (for RS-422) BKM-103

Slide Rail Kit SLR-103A

TV Tuner Unit TU-1041U



DISPLAY  
PRODUCTS

### Specifications

#### CRT

AG pitch:	0.31 mm
Phosphor:	SMPTE-C
CRT size:	53.3 cm (20-inch) diagonally
Visible picture size:	48.3 cm (19-inch) diagonally
Resolution:	800 TV lines
Color system:	NTSC, PAL, SECAM, NTSC <sup>4,43</sup> *
Aperture correction:	0 to +6 dB
Frequency response:	LINE: 10.0 MHz ( $\pm 3$ dB) *Y signal only RGB: 10.0 MHz ( $\pm 3$ dB)
Synchronization:	AFC time constant 1.0 ms
Normal scan:	7% over scan
Under scan:	5% under scan
Linearity:	H: less than 5% V: less than 5%
Convergence:	center: 0.5 mm (typical) peripheral: 0.7 mm (typical)
Raster size stability:	H: 1.0% V: 1.5%
HV regulation:	4.0%
Color temperature:	D65, D93, USER (3200 K to 10000 K)
Audio out:	0.8 W (distortion: less than 5%)
Power consumption:	125 W (with SDI: 135 W)
AC input range:	AC 100 to 240 V (50/60 Hz)
Operation temperature:	0 to 35 °C (32 to 95 °F)
Storage temperature:	-10 to 40 °C (14 to 104 °F)
Operating humidity:	35 to 85% (no condensation)
Storage humidity:	0 to 90%
Pressure:	880 to 1060 hPa
Dimensions <sup>*3</sup> :	450 (W) x 458 (H) x 503 (D) mm (17 $\frac{3}{4}$ x 18 $\frac{1}{8}$ x 19 $\frac{7}{8}$ inches)
Mass:	30 kg (66 lb 2 oz)

#### Inputs / Outputs

LINE A/B*	1.0 Vp-p $\pm 6$ dB Loop-through BNC automatic 75 Ω termination <sup>*5</sup>
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#### LINE C\*

Y: 1.0 Vp-p $\pm 6$ dB C: 0.3 Vp-p $\pm 6$ dB Loop-through Mini DIN 4-pin automatic 75 Ω termination <sup>*5</sup>
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#### RGB/Component (selectable)\*<sup>6</sup>

R/R-Y: 0.7 Vp-p  $\pm 6$  dB

G: 0.7 Vp-p  $\pm 6$  dB

Sync on G: 0.3 Vp-p  $\pm 6$  dB

Y: 0.7 Vp-p  $\pm 6$  dB

B/B-Y: 0.7 Vp-p  $\pm 6$  dB

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### External Sync

4.0 Vp-p  $\pm 6$  dB, negative

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### Safety Standards

UL-1950 / CSA-950, DHHS / DNHW, FCC Class A /

IC Class A

\*1 Phase set-up is for NTSC signals only.

\*2 The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*3 Excluding all protruding parts.

\*4 The Y/C input has priority over the Composite video input.

\*5 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

\*6 Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 19" PVM-20M2U (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

### Color Video Monitor

- High resolution of 600 TV lines with dark tint CRT for high contrast image reproduction
- Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals
- Beam current feedback circuit for stability in the color balance
- Optional Component Serial Digital Interface Kits BKM-101C (video)/102 (audio) available
- Switchable aspect ratio (4:3 and 16:9)
- Color temperature D65, D93 or user preset (3200 K to 10000 K) selectable
- On-screen display for adjustment/operation
- User preset function
- Underscan, Blue Only and H/V delay mode available
- Auto chroma/phase set-up<sup>\*1</sup>
- Accepts external sync
- Caption vision decoder (closed caption)
- Auto/manual degaussing
- Mountable into an EIA standard rack with the optional SLR-103A

Supplied accessories: 20-pin Remote Cable  
Tally Label  
AC Cord

AC Plug Holder  
Operation Manual

Optional accessories: Component Serial Digital Interface Kit (video)  
BKM-101C  
Component Serial Digital Interface Kit (audio)  
BKM-102  
Serial Remote Control Kit (for RS-422) BKM-103  
Slide Rail Kit SLR-103A  
TV Tuner Unit TU-1041U



### Specifications

#### CRT

AG pitch:	0.4 mm
Phosphor:	P-22
CRT size:	53.3 cm (20-inch) diagonally
Visible picture size:	48.0 cm (19-inch) diagonally
Resolution:	600 TV lines
Color system:	NTSC, PAL, SECAM, NTSC <sup>4,43</sup> <sup>*2</sup>
Aperture correction:	0 to +6 dB
Frequency response:	LINE: 10.0 MHz ( $\pm 3$ dB) *Y signal only RGB: 10.0 MHz ( $\pm 3$ dB)
Synchronization:	AFC time constant 1.0 mS
Normal scan:	7% over scan
Under scan:	5% under scan
Linearity:	H: less than 5% V: less than 5%
Convergence:	center: 0.6 mm (typical) peripheral: 1.0 mm (typical)
Raster size stability:	H: 1.0% V: 1.5%
HV regulation:	4.0%
Color temperature:	D65, D93, USER (3200 K to 10000 K)
Audio out:	0.8 W (distortion: less than 5%)
Power consumption:	125 W (with SDI: 135 W)
AC input range:	AC 100 to 240 V (50/60 Hz)
Operation temperature:	0 to 35 °C (32 to 95 °F)
Storage temperature:	-10 to 40 °C (14 to 104 °F)
Operating humidity:	35 to 85% (no condensation)
Storage humidity:	0 to 90%
Pressure:	880 to 1060 hPa
Dimensions <sup>*3</sup> :	450 (W) × 458 (H) × 503 (D) mm (17 <sup>3</sup> / <sub>4</sub> × 18 <sup>1</sup> / <sub>8</sub> × 19 <sup>7</sup> / <sub>8</sub> inches)
Mass:	30 kg (66 lb 2 oz)

#### Inputs / Outputs

LINE A/B<sup>\*4</sup>  
1.0 Vp-p ±6 dB  
Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### LINE C<sup>\*4</sup>

Y: 1.0 Vp-p ±6 dB  
C: 0.3 Vp-p ±6 dB  
Loop-through Mini DIN 4-pin automatic  
75 Ω termination<sup>\*5</sup>



#### RGB/Component (selectable)\*6

R/R-Y: 0.7 Vp-p ±6 dB  
G: 0.7 Vp-p ±6 dB  
Sync on G: 0.3 Vp-p ±6 dB  
Y: 0.7 Vp-p ±6 dB  
B/B-Y: 0.7 Vp-p ±6 dB  
Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### External Sync

4.0 Vp-p ±6 dB, negative

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>  
UL-1950 / CSA-950, DHHS / DNHW, FCC Class A / IC Class A

#### Safety Standards

\*1 Phase set-up is for NTSC signals only.

\*2 The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*3 Excluding all protruding parts.

\*4 The Y/C input has priority over the Composite video input.

\*5 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

\*6 Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 19" PVM-20M2MDU (NTSC/PAL)

### Color Video Monitor for medical use

•High resolution of 600 TV lines at center  
•Beam current feedback circuit for stable color reproduction  
•Component (Y/R-Y/B-Y or RGB) input facility  
•On-screen display in multiple languages for adjustment/operation  
•D65/D56/D93/User preset color temperature selectable  
•Capable of observing two RGB input signals simultaneously with the RGB split mode  
•20% overscan/normal scan/underscan selection  
•Blue Only mode  
•Accepts external sync  
•RS-232C serial remote control capability  
•8 V DC out  
•Tally lamp  
•Mountable into a 19-inch EIA standard rack with the optional SLR-103A  
•White color cabinet  
•Complies with UL 2601-1, CSA 601.1 safety regulations

Supplied accessories:  
AC Power Cord  
AC Plug Holder  
Side Cover (2)  
Control Panel Cover  
Panel Hinge (2)  
Remote Control Connector 8-pin mini DIN  
Instructions for Use  
RS-232C Protocol Manual

Optional accessory:  
Slide Rail Kit SLR-103A



### Specifications

Color system:	NTSC/PAL (automatically selected)
Picture tube:	20-inch CRT with P-22 phosphor, visible picture size 479.8 mm (19-inch) measured diagonally
Horizontal resolution:	600 TV lines at center (Video inputs)
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V 1.5 to 0.6 A, 50/60 Hz
Dimensions*1:	450 (W) × 457.5 (H) × 503 (D) mm (17 <sup>3</sup> / <sub>4</sub> × 18 <sup>1</sup> / <sub>8</sub> × 19 <sup>7</sup> / <sub>8</sub> inches)
Mass:	30.0 kg (66 lb 2 oz)
<b>VIDEO</b>	
LINE A	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination*2
LINE B	Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination*2 C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination*2 PAL: 0.3 Vp-p, Automatic 75 Ω termination*2
RGB/Component	A: Loop-through BNC R-Y/B-Y: 0.7 Vp-p, Automatic 75 Ω termination*2 Y/Sync on G: 1.0 Vp-p, sync negative, Automatic 75 Ω termination*2 R/G/B: 0.7 Vp-p, Automatic 75 Ω termination*2 Sync: 4.0 Vp-p negative, Automatic 75 Ω termination*2 B: BNC R-Y/B-Y: 0.7 Vp-p, 75 Ω Y/Sync on G: 1.0 Vp-p, sync negative, 75 Ω R/G/B: 0.7 Vp-p, 75 Ω Sync: 4.0 Vp-p negative, 75 Ω
<b>AUDIO</b>	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Loop-through Phono -5 dBu, high impedance
RGB/Component	A: Loop-through Phono -5 dBu, high impedance B: Phono -5 dBu, high impedance



\*1 Excluding all protruding parts.

\*2 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 19" PVM-20N6U (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Color Video Monitor

- Resolution of 500 TV lines
- Beam current feedback circuit for stability in the color balance
- Accepts composite video, Y/C and RGB signals
- Switchable aspect ratio (4:3 and 16:9)
- On-screen menu for adjustment/operation
- Input channel can be selected via REMOTE terminal (Phono)
- Built-in speaker
- One touch recall of last menu used (VOLUME, CONTRAST, BRIGHTNESS, CHROMA and PHASE)
- Mountable into a 19-inch EIA standard rack with the optional SLR-103A

Optional accessory: Slide Rail Kit SLR-103A

### Specifications

Video signal system:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> <sup>*1</sup>
Picture tube:	53 cm (20-inch), HR Trinitron tube, visible picture size 48 cm (min.) (19-inch) measured diagonally, 90° deflection, P-22 phosphors
Horizontal resolution:	500 TV lines at center
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V, 50/60 Hz
Power consumption:	100 W
Dimensions <sup>*2</sup> :	449 (W) × 441 (H) × 502 (D) mm (17 11/16 × 17 3/8 × 19 3/4 inches)
Mass:	28 kg (61 lb 11 oz)
VIDEO	
LINE A <sup>*3</sup>	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination <sup>*4</sup> PAL: 0.3 Vp-p, Automatic 75 Ω termination <sup>*4</sup>
LINE B <sup>*3</sup>	BNC 1.0 Vp-p, sync negative, 75 Ω Mini DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω C: NTSC: 0.286 Vp-p, 75 Ω PAL: 0.3 Vp-p, sync negative, 75 Ω
RGB/Sync	BNC R/G/B: 0.7 Vp-p, 75 Ω Sync on G: 0.3 Vp-p, 75 Ω Sync: 4.0 Vp-p, 75 Ω
AUDIO	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Phono -5 dBu, high impedance
RGB/Sync	Phono -5 dBu, high impedance



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<sup>\*1</sup> The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*2</sup> Including all protruding parts.

<sup>\*3</sup> The Y/C input has priority over the Composite video input.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 19" PVM-20N5U (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Color Video Monitor

- Resolution of 500 TV lines
- Beam current feedback circuit for stability in the color balance
- Accepts composite video and Y/C signals
- On-screen menu for adjustment/operation
- Built-in speaker
- One touch recall of last menu used (VOLUME, CONTRAST, BRIGHTNESS, CHROMA and PHASE)
- Mountable into a 19-inch EIA standard rack with the optional SLR-103A

Optional accessory: Slide Rail Kit SLR-103A

### Specifications

Video signal system:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> <sup>*1</sup>
Picture tube:	53 cm (20-inch), HR Trinitron tube, visible picture size 48 cm (min.) (19-inch) measured diagonally, 90° deflection, P-22 phosphors
Horizontal resolution:	500 TV lines at center
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V, 50/60 Hz
Power consumption:	100 W
Dimensions <sup>*2</sup> :	449 (W) × 441 (H) × 502 (D) mm (17 <sup>11/16</sup> × 17 <sup>3/8</sup> × 19 <sup>3/4</sup> inches)
Mass:	28 kg (61 lb 11 oz)
<b>VIDEO</b>	
LINE A <sup>*3</sup>	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination <sup>*4</sup> PAL: 0.3 Vp-p, Automatic 75 Ω termination <sup>*4</sup>
LINE B <sup>*3</sup>	BNC 1.0 Vp-p, sync negative, 75 Ω Mini DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω C: NTSC: 0.286 Vp-p, 75 Ω PAL: 0.3 Vp-p, sync negative, 75 Ω
<b>AUDIO</b>	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Phono -5 dBu, high impedance



<sup>\*1</sup> The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*2</sup> Including all protruding parts.

<sup>\*3</sup> The Y/C input has priority over the Composite video input.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 13" PVM-14M4U (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

### Color Video Monitor

- HR Trinitron CRT assures a high resolution of 800 TV lines
- Adopts SMPTE-C standard phosphors • Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals • Beam current feedback circuit for stability in the color balance
- Optional Component Serial Digital Interface Kits BKM-101C (video)/102 (audio) available • Switchable aspect ratio (4:3 and 16:9) • Color temperature D65, D93 or user preset (3200 K to 10000 K) selectable • On-screen display for adjustment/operation • User preset function • Underscan, Blue Only and H/V delay mode available • Auto chroma/phase set-up<sup>\*1</sup> • Accepts external sync • Caption vision decoder (closed caption) • Auto/manual degaussing • Minimizes magnetic field emission • Mountable into an EIA standard rack with the optional MB-502B and SLR-102

Supplied accessories: 20-pin Remote Cable

Tally Label

AC Cord

AC Plug Holder

Operation Manual

Optional accessories: Component Serial Digital Interface Kit (video)

BKM-101C

Component Serial Digital Interface Kit (audio)

BKM-102

Serial Remote Control Kit (for RS-422) BKM-103

Mounting Bracket MB-502B

Slide Rail Kit SLR-102

TV Tuner Unit TU-1041U

### Specifications

#### CRT

AG pitch:	0.25 mm
Phosphor:	SMPTE-C
CRT size:	37.1 cm (14-inch) diagonally
Visible picture size:	33.2 cm (13-inch) diagonally
Resolution:	800 TV lines
Color system:	NTSC, PAL, SECAM, NTSC <sup>4,43</sup> <sup>*2</sup>
Aperture correction:	0 to +6 dB
Frequency response:	LINE: 10.0 MHz ( $\pm 3$ dB) *Y signal only RGB: 10.0 MHz ( $\pm 3$ dB)
Synchronization:	AFC time constant 1.0 mS
Normal scan:	7% over scan
Under scan:	5% under scan
Linearity:	H: less than 4% V: less than 4%
Convergence:	Center: 0.4 mm (typical) Peripheral: 0.5 mm (typical)
Raster size stability:	H: 1.0% V: 1.5%
HV regulation:	3.5%
Color temperature:	D65, D93, USER (3200 K to 10000 K)
Audio out:	0.8 W (distortion: less than 5%)
Power consumption:	90 W (with SDI: 99 W)
AC input range:	AC 100 to 240 V (50/60 Hz)
Operation temperature:	0 to 35 °C (32 to 95 °F)
Storage temperature:	-10 to 40 °C (14 to 104 °F)
Operating humidity:	35 to 85% (no condensation)
Storage humidity:	0 to 90%
Pressure:	880 to 1060 hPa
Dimensions <sup>*3</sup> :	346 (W) × 340 (H) × 431 (D) mm (13 <sup>5</sup> / <sub>8</sub> × 13 <sup>1</sup> / <sub>2</sub> × 17 inches)
Mass:	16.7 kg (36 lb 13 oz)

#### Inputs / Outputs

LINE A/B<sup>\*4</sup>  
1.0 Vp-p ±6 dB  
Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

LINE C<sup>\*4</sup>

Y: 1.0 Vp-p ±6 dB  
C: 0.3 Vp-p ±6 dB  
Loop-through Mini DIN 4-pin automatic  
75 Ω termination<sup>\*5</sup>



#### RGB/Component (selectable)<sup>\*6</sup>

R/R-Y: 0.7 Vp-p ±6 dB

G: 0.7 Vp-p ±6 dB

Sync on G: 0.3 Vp-p ±6 dB

Y: 0.7 Vp-p ±6 dB

B/B-Y: 0.7 Vp-p ±6 dB

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### External Sync

4.0 Vp-p ±6 dB, negative

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

#### Safety Standards

UL-1950 / CSA-950, DHHS / DNHW, FCC Class A / IC Class A

<sup>\*1</sup> Phase set-up is for NTSC signals only.

<sup>\*2</sup> The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*3</sup> Excluding all protruding parts.

<sup>\*4</sup> The Y/C input has priority over the Composite video input.

<sup>\*5</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

<sup>\*6</sup> Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 13" PVM-14M2U (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

### Color Video Monitor

- High resolution of 600 TV lines with dark tint CRT for high contrast image reproduction
- Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals
- Beam current feedback circuit for stability in the color balance
- Optional Component Serial Digital Interface Kits BKM-101C (video)/102 (audio) available
- Switchable aspect ratio (4:3 and 16:9)
- Color temperature D65, D93 or user preset (3200 K to 10000 K) selectable
- On-screen display for adjustment/operation
- User preset function
- Underscan, Blue Only and H/V delay mode available
- Auto chroma/phase set-up<sup>\*1</sup>
- Accepts external sync
- Caption vision decoder (closed caption)
- Auto/manual degaussing
- Mountable into an EIA standard rack with the optional MB-502B and SLR-102

Supplied accessories:

- 20-pin Remote Cable
- Tally Label
- AC Cord
- AC Plug Holder
- Operation Manual

Optional accessories:

- Component Serial Digital Interface Kit (video)  
BKM-101C
- Component Serial Digital Interface Kit (audio)  
BKM-102
- Serial Remote Control Kit (for RS-422) BKM-103
- Mounting Bracket MB-502B
- Slide Rail Kit SLR-102
- TV Tuner Unit TU-1041U



### Specifications

#### CRT

AG pitch:	0.25 mm
Phosphor:	P-22
CRT size:	37.1 cm (14-inch) diagonally
Visible picture size:	33.2 cm (13-inch) diagonally
Resolution:	600 TV lines
Color system:	NTSC, PAL, SECAM, NTSC <sup>4,43</sup> <sup>*2</sup>
Aperture correction:	0 to +6 dB
Frequency response:	LINE: 10.0 MHz ( $\pm 3$ dB) *Y signal only RGB: 10.0 MHz ( $\pm 3$ dB)
Synchronization:	AFC time constant 1.0 ms
Normal scan:	7% over scan
Under scan:	5% under scan
Linearity:	H: less than 4% V: less than 4%
Convergence:	Center: 0.4 mm (typical) Peripheral: 0.5 mm (typical)
Raster size stability:	H: 1.0% V: 1.5%
HV regulation:	3.5%
Color temperature:	D65, D93, USER (3200 K to 10000 K)
Audio out:	0.8 W (distortion: less than 5%)
Power consumption:	90 W (with SDI: 99 W)
AC input range:	AC100 to 240 V (50/60 Hz)
Operation temperature:	0 to 35 °C (32 to 95 °F)
Storage temperature:	-10 to 40 °C (14 to 104 °F)
Operating humidity:	35 to 85% (no condensation)
Storage humidity:	0 to 90%
Pressure:	880 to 1060 hPa
Dimensions <sup>*3</sup> :	346 (W) × 340 (H) × 431 (D) mm (13 $\frac{5}{8}$ × 13 $\frac{1}{2}$ × 17 inches)
Mass:	16.7 kg (36 lb 13 oz)

### Inputs / Outputs

LINE A/B<sup>\*4</sup>

1.0 Vp-p  $\pm 6$  dB  
Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

LINE C<sup>\*4</sup>

Y: 1.0 Vp-p  $\pm 6$  dB  
C: 0.3 Vp-p  $\pm 6$  dB  
Loop-through Mini DIN 4-pin automatic<sup>\*5</sup>  
75 Ω termination

### RGB/Component (selectable)\*6

R/R-Y: 0.7 Vp-p  $\pm 6$  dB  
G: 0.7 Vp-p  $\pm 6$  dB  
Sync on G: 0.3 Vp-p  $\pm 6$  dB  
Y: 0.7 Vp-p  $\pm 6$  dB  
B/B-Y: 0.7 Vp-p  $\pm 6$  dB  
Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>

### External Sync

4.0 Vp-p  $\pm 6$  dB, negative

Loop-through BNC automatic 75 Ω termination<sup>\*5</sup>  
UL-1950 / CSA-950, DHHS / DNHW, FCC Class A /  
IC Class A

### Safety Standards

<sup>\*1</sup> Phase set-up is for NTSC signals only.

<sup>\*2</sup> The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*3</sup> Excluding all protruding parts.

<sup>\*4</sup> The Y/C input has priority over the Composite video input.

<sup>\*5</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

<sup>\*6</sup> Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 13" PVM-14M2MDU (NTSC/PAL)

### Color Video Monitor for medical use

- High resolution of 600 TV lines at center
- Beam current feedback circuit for stable color reproduction
- Component (Y/R-Y/B-Y or RGB) input facility
- On-screen display in multiple language for adjustment/operation
- D65/D56/D93/User preset color temperature selectable
- Capable of observing two RGB input signals simultaneously with the RGB split mode
- 20% overscan/normal scan/underscan selection
- Blue Only mode
- Accepts external sync
- RS-232C serial remote control capability
- 8 V DC out
- Tally lamp
- Mountable into a 19-inch EIA standard rack with the optional MB-502B and SLR-102
- White color cabinet
- Complies with UL 2601-1, CSA 601.1 safety regulations

Supplied accessories: AC Power Cord

AC Plug Holder

Side Cover (2)

Control Panel Cover

Panel Hinge (2)

Remote Control Connector 8-pin mini DIN

Instructions for Use

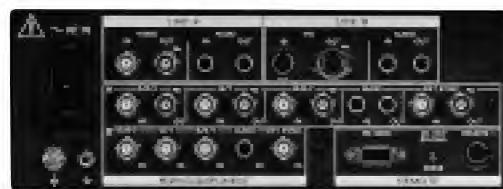
RS-232C Protocol Manual

Optional accessories: Mounting Bracket MB-502B

Slide Rail Kit SLR-102

### Specifications

Color system:	NTSC/PAL (automatically selected)
Picture tube:	14-inch CRT with P-22 phosphors, visible picture size 331.6 mm (13-inch) measured diagonally
Horizontal resolution:	600 TV lines at center (Video inputs)
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V 1.2 to 0.5 A, 50/60 Hz
Dimensions*1:	346 (W) x 340 (H) x 430.5 (D) mm (13 <sup>5</sup> / <sub>8</sub> x 13 <sup>1</sup> / <sub>2</sub> x 17 inches)
Mass:	16.7 kg (37 lb 8 oz)
<b>VIDEO</b>	
LINE A	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*2</sup>
LINE B	Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*2</sup> C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination <sup>*2</sup> PAL: 0.3 Vp-p, Automatic 75 Ω termination <sup>*2</sup>
RGB/Component	A: Loop-through BNC R-Y/B-Y: 0.7 Vp-p, Automatic 75 Ω termination <sup>*2</sup> Y/Sync on G: 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*2</sup> R/G/B: 0.7 Vp-p, Automatic 75 Ω termination <sup>*2</sup> Sync: 4.0 Vp-p negative, Automatic 75 Ω termination <sup>*2</sup> B: BNC R-Y/B-Y: 0.7 Vp-p, 75 Ω Y/Sync on G: 1.0 Vp-p, sync negative, 75 Ω R/G/B: 0.7 Vp-p, 75 Ω Sync: 4.0 Vp-p negative, 75 Ω
<b>AUDIO</b>	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Loop-through Phono -5 dBu, high impedance
RGB/Component	A: Loop-through Phono -5 dBu, high impedance B: Phono -5 dBu, high impedance



DISPLAY  
PRODUCTS

\*1 Excluding all protruding parts.

\*2 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 13" PVM-14N6U (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Color Video Monitor

- Resolution of 500 TV lines
- Beam current feedback circuit for stability in the color balance
- Accepts composite video, Y/C and RGB signals
- Switchable aspect ratio (4:3 and 16:9)
- On-screen menu for adjustment/operation
- Input channel can be selected via REMOTE terminal (Phono)
- Built-in speaker
- One touch recall of last menu used (VOLUME, CONTRAST, BRIGHTNESS, CHROMA and PHASE)
- Mountable into a 19-inch EIA standard rack with the optional MB-502B and SLR-102

Optional accessories: Mounting Bracket MB-502B  
Slide Rail Kit (used with the MB-502B) SLR-102

### Specifications

Video signal system:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> <sup>*1</sup>
Picture tube:	37.1 cm (14-inch), HR Trinitron tube, visible picture size 33.2 cm (min.) (13-inch) measured diagonally, 90° deflection, P-22 phosphors
Horizontal resolution:	500 TV lines at center
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V, 50/60 Hz
Power consumption:	80 W
Dimensions <sup>*2</sup> :	346 (W) × 340 (H) × 414 (D) mm (13 <sup>5</sup> / <sub>8</sub> × 13 <sup>3</sup> / <sub>8</sub> × 16 <sup>5</sup> / <sub>16</sub> inches)
Mass:	15 kg (33 lb 1 oz)
VIDEO	
LINE A <sup>*3</sup>	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup> C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination <sup>*4</sup> PAL: 0.3 Vp-p, Automatic 75 Ω termination <sup>*4</sup>
LINE B <sup>*3</sup>	BNC 1.0 Vp-p, sync negative, 75 Ω Mini DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω C: NTSC: 0.286 Vp-p, 75 Ω PAL: 0.3 Vp-p, sync negative, 75 Ω
RGB/Sync	BNC R/G/B: 0.7 Vp-p, 75 Ω Sync on G: 0.3 Vp-p, 75 Ω Sync: 4.0 Vp-p, 75 Ω
AUDIO	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Phono -5 dBu, high impedance
RGB/Sync	Phono -5 dBu, high impedance



\*1 The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*2 Including all protruding parts.

\*3 The Y/C input has priority over the Composite video input.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 13" PVM-14N5U (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Color Video Monitor

- Resolution of 500 TV lines
- Beam current feedback circuit for stability in the color balance
- Accepts composite video and Y/C signals
- On-screen menu for adjustment/operation
- Built-in speaker
- One touch recall of last menu used (VOLUME, CONTRAST, BRIGHTNESS, CHROMA and PHASE)
- Mountable into a 19-inch EIA standard rack with the optional MB-502B and SLR-102

Optional accessories:      Mounting Bracket MB-502B  
                                  Slide Rail Kit (used with the MB-502B) SLR-102

### Specifications

Video signal system:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done) NTSC/PAL/SECAM/NTSC <sub>4.43</sub> <sup>*1</sup>
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> <sup>*1</sup>
Picture tube:	37.1 cm (14-inch), HR Trinitron tube, visible picture size 33.2 cm (min.) (13-inch) measured diagonally, 90° deflection, P-22 phosphors
Horizontal resolution:	500 TV lines at center
Audio power output:	Monaural, 0.8 W with built-in speaker
Power requirements:	AC 100 to 240 V, 50/60 Hz
Power consumption:	80 W
Dimensions <sup>*2</sup> :	346 (W) × 340 (H) × 414 (D) mm (13 <sup>5</sup> / <sub>8</sub> × 13 <sup>3</sup> / <sub>8</sub> × 16 <sup>5</sup> / <sub>16</sub> inches)
Mass:	15 kg (33 lb 1 oz)
<b>VIDEO</b>	
LINE A <sup>*3</sup>	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup>
	Loop-through Mini DIN 4-pin Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup>
	C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination <sup>*4</sup> PAL: 0.3 Vp-p, Automatic 75 Ω termination <sup>*4</sup>
LINE B <sup>*3</sup>	BNC 1.0 Vp-p, sync negative, 75 Ω Mini DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω C: NTSC: 0.286 Vp-p, 75 Ω PAL: 0.3 Vp-p, sync negative, 75 Ω
<b>AUDIO</b>	
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Phono -5 dBu, high impedance



<sup>\*1</sup> The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*2</sup> Including all protruding parts.

<sup>\*3</sup> The Y/C input has priority over the Composite video input.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 8" PVM-8045Q (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### For picture evaluation in studio, ENG/EFP applications

• Aspect ratio is switchable (4:3 and 16:9) with the 16:9 button on the front panel • High resolution CRT provides 450 TV lines at center (composite video) • Stable color temperature from beam current feedback circuit • Analog component level selectable between BETA and SMPTE/N10 by a rear panel slide switch • NTSC comb filter • Accepts external sync/sync on Green • Tally input • Color temperature D65 • Blue Only, H/V delay, Underscan capability • Built-in speaker and monitoring amplifier • AC/DC operation • Front panel degauss button • EIA standard rack mountable with a second PVM-8045Q (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord  
Mini DIN 8-pin Connector with cable (cable length 350 mm, 13 7/8 inches)  
Tally Number Plates (12 pcs: No.1 to 5, A, B, C, P, R, white × 2 pcs)

Operation Manual  
Optional accessories: TV Tuner Unit TU-1041U  
Monitor ENG Kit VF-505 (Monitor hood and cord reel)  
Mounting Panel MB-509  
Mounting Bracket MB-520  
Battery Adaptor DC-L10  
Rechargeable Lithium-ion Battery BP-L60A  
Rechargeable Lithium-ion Battery BP-L90A  
Rechargeable Battery Pack NP-1B  
Rechargeable Battery Pack BP-90A  
Battery Case (for BP-90A battery) DC-210  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L50  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L100  
Battery Charger (for four NP-1B batteries) BC-1WD  
Battery Charger (for four NP-1B and four BP-90A batteries) BC-410



### Specifications

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)  
Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>\*1 (automatically selected)  
Picture tube: 22 cm (9-inch) HR Trinitron tube, visible picture size 19.7 cm (8-inch) measured diagonally, 70° deflection  
Horizontal resolution: 450 TV lines at center  
Audio power output: Monaural, 0.5 W with built-in speaker  
Power requirements: AC: 100 to 240 V 0.7 to 0.4 A, 50/60 Hz  
DC: 12 V 3.7 A  
Power consumption: AC: 45 W max.  
DC: 38 W  
Dimensions\*: 217 (W) × 217 (H) × 352.5 (D) mm (8 5/8" × 8 5/8" × 14 inches)  
Mass: 8.2 kg (18 lb)

### VIDEO

#### LINE A

Composite\*: Loop-through BNC  
1.0 Vp-p, sync negative, Automatic 75 Ω termination\*<sup>4</sup>  
Y/C\*: Loop-through Mini DIN 4-pin  
Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination\*<sup>4</sup>  
C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination\*<sup>4</sup>  
PAL: 0.3 Vp-p, Automatic 75 Ω termination\*<sup>4</sup>

#### LINE B

Composite: Loop-through BNC  
1.0 Vp-p, sync negative, Automatic 75 Ω termination\*<sup>4</sup>

RGB/Component*	BNC
R/R-Y:	Non-composite: 0.7 Vp-p, 75 Ω Sync on Green/G/Y: Composite: 1.0 Vp-p, sync negative, 75 Ω
B/B-Y:	Non-composite: 0.7 Vp-p, 75 Ω Non-composite: 0.7 Vp-p, 75 Ω
Tally	Loop-through BNC 4.0 Vp-p negative, Automatic 75 Ω termination* <sup>4</sup>
DC	Mini DIN 8-pin XLR 4-pin
AUDIO	Loop-through Phono -5 dBu, high impedance
LINE A	Loop-through Phono -5 dBu, high impedance
LINE B	Phono -5 dBu, high impedance
RGB/Component	Loop-through Phono -5 dBu, high impedance

\*1 The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*2 Excluding all protruding parts.

\*3 The Y/C input has priority over the Composite video input.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

\*5 Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 8" PVM-8042Q (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### For multi-purpose use in various applications

•Aspect ratio is switchable (4:3 and 16:9) with the 16:9 button on the front panel •Stable color temperature from beam current feedback circuit •Analog component level selectable between BETA and SMPTE/N10 by a rear panel slide switch •NTSC comb filter •Accepts external sync/sync on Green •Tally input •Color temperature D65 •Blue Only, H/V delay, Underscan capability •Built-in speaker and monitoring amplifier •AC/DC operation •Front panel degauss button •EIA standard rack mountable with a second PVM-8042Q (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord  
Mini DIN 8-pin Connector with cable (cable length 350 mm, 13 7/8 inches)  
Tally Number Plates (12 pcs: No.1 to 5, A, B, C, P, R, white x 2 pcs)  
Operation Manual

Optional accessories: TV Tuner Unit TU-1041U  
Monitor ENG Kit VF-505 (Monitor hood and cord reel)  
Mounting Panel MB-509  
Mounting Bracket MB-520  
Battery Adaptor DC-L10  
Rechargeable Lithium-ion Battery BP-L60A  
Rechargeable Lithium-ion Battery BP-L90A  
Rechargeable Battery Pack NP-1B  
Rechargeable Battery Pack BP-90A  
Battery Case (for BP-90A battery) DC-210  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L50  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L100  
Battery Charger (for four NP-1B batteries) BC-1WD  
Battery Charger (for four NP-1B and four BP-90A batteries) BC-410

### Specifications

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub><sup>\*1</sup>  
(automatically selected)

Picture tube: 22 cm (9-inch) Trinitron tube,  
visible picture size 19.7 cm (8-inch) measured diagonally, 70° deflection

Horizontal resolution: 250 TV lines at center

Audio power output: Monaural, 0.5 W with built-in speaker

Power requirements: AC: 100 to 240 V 0.7 to 0.4 A, 50/60 Hz

DC: 12 V 3.7 A

Power consumption: AC: 45 W max.

DC: 38 W

Dimensions<sup>\*2</sup>: 217 (W) x 217 (H) x 352.5 (D) mm  
(8 5/8" x 8 5/8" x 14 inches)

Mass: 8.2 kg (18 lb)

#### VIDEO

#### LINE A

Composite<sup>\*3</sup>:

Loop-through BNC

1.0 Vp-p, sync negative,

Automatic 75 Ω termination<sup>\*4</sup>

Loop-through Mini DIN 4-pin

Y (luminance): 1.0 Vp-p, sync negative,

Automatic 75 Ω termination<sup>\*4</sup>

C (chrominance):

NTSC: 0.286 Vp-p, Automatic 75 Ω termination<sup>\*4</sup>

PAL: 0.3 Vp-p, Automatic 75 Ω termination<sup>\*4</sup>

#### LINE B

Composite:

Loop-through BNC

1.0 Vp-p, sync negative,

Automatic 75 Ω termination<sup>\*4</sup>



RGB/Component<sup>\*5</sup>

R/R-Y:

Sync on Green/G/Y:

B/B-Y:

External sync

Tally

DC INPUT

**AUDIO**

LINE A

LINE B

RGB/Component

BNC

Non-composite: 0.7 Vp-p, 75 Ω

Composite: 1.0 Vp-p, sync negative, 75 Ω

Non-composite: 0.7 Vp-p, 75 Ω

Non-composite: 0.7 Vp-p, 75 Ω

Loop-through BNC

4.0 Vp-p negative, Automatic 75 Ω termination<sup>\*4</sup>

Mini DIN 8-pin

XLR 4-pin

Loop-through Phono

-5 dBu, high impedance

Loop-through Phono

-5 dBu, high impedance

Phono

-5 dBu, high impedance

<sup>\*1</sup> The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*2</sup> Excluding all protruding parts.

<sup>\*3</sup> The Y/C input has priority over the Composite video input.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

<sup>\*5</sup> Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 8" PVM-8040 (NTSC)

### Color Video Monitor

- Employs a beam current feedback circuit for stability in the color balance
- Composite video or Y/C input with audio input
- Built-in speaker
- 19-inch EIA standard rack mountable with a second PVM-8040 (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord

Operation Manual

Optional accessories: TV Tuner Unit TU-1041U

Mounting Panel MB-509

Mounting Bracket MB-520

### Specifications

Video signal system: EIA 525 lines, 50 fields

Color system: NTSC

Picture tube:

22 cm (9-inch) Trinitron tube,  
visible picture size 19.7 cm (8-inch) measured  
diagonally, 70° deflection

Horizontal resolution: 250 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC: 120 V<sup>\*1</sup> 0.7 to 0.4 A, 50/60 Hz

Power consumption: AC: 39 W max.

Dimensions<sup>\*2</sup>: 217 (W) × 217 (H) × 352.5 (D) mm  
(8<sup>5</sup>/<sub>8</sub> × 8<sup>5</sup>/<sub>8</sub> × 14 inches)

Mass: 8.2 kg (18 lb)

### VIDEO

#### LINE

Composite<sup>\*3</sup>: Loop-through BNC  
1.0 Vp-p, sync negative, Automatic 75 Ω  
termination<sup>\*4</sup>

Y/C<sup>\*3</sup>: Loop-through 4-pin Mini DIN  
Y (luminance):  
1.0 Vp-p, sync negative, Automatic 75 Ω  
termination<sup>\*4</sup>  
C (chrominance):  
0.286 Vp-p, Automatic 75 Ω termination<sup>\*4</sup>

### AUDIO

#### LINE

Loop-through Phono  
-5 dBu, high impedance



\*1 Capable of 100 to 240 V operation.

\*2 Excluding all protruding parts.

\*3 The Y/C input has priority over the Composite video input.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 5" PVM-5041Q (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Suitable for picture confirmation in ENG/EFP application and multiple camera monitoring

- Employs a beam current feedback circuit for stability in the color balance
- Switchable aspect ratio (4:3 and 16:9)
- Two inputs: Component (Y/R-Y/B-Y or RGB) input and Composite video input
- Accepts external sync and sync on Green
- Blue Only, H/V delay, Underscan capability
- AC/DC operation capability using one NP-1B battery pack or a BP-90A with DC-210 adaptor
- Wired remote control capability
- Built-in speaker
- Tally input
- 19-inch EIA standard rack mountable with another two units of PVM-5041Q (or two optional Mounting Panel MB-508) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord  
Mini DIN 8-pin Connector with cable (cable length 350 mm, 137/8 inches)  
Operation Manual

Optional accessories: TV Tuner Unit TU-1041U  
Monitor ENG Kit VF-504 (Monitor hood and cord reel)  
Mounting Panel MB-508  
Mounting Bracket MB-520  
Battery Adaptor DC-L10  
Rechargeable Battery Pack BP-L60A  
Rechargeable Battery Pack BP-L90A  
Rechargeable Battery Pack NP-1B  
Rechargeable Battery Pack BP-90A  
Battery Case (for BP-90A battery) DC-210  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L50  
Battery Charger (for four BP-L60A or BP-L90A batteries) BC-L100  
Battery Charger (for four NP-1B batteries) BC-1WD  
Battery Charger (for four NP-1B and four BP-90A batteries) BC-410



### Specifications

Video signal system:	EIA 525 lines, 60 fields /CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> *1 (automatically selected)
Picture tube:	14.7 cm (6-inch) Trinitron tube, visible picture size 13 cm (5-inch) measured diagonally, 70° deflection
Horizontal resolution:	250 TV lines at center
Audio power output:	Monaural, 0.5 W with built-in speaker
Power requirements:	AC: 120 V <sup>*2</sup> , 50/60 Hz, DC: 12 V 3.2 A
Power consumption:	AC: 42 W max., DC: 40 W
Dimensions <sup>*3</sup> :	146 (W) × 173 (H) × 352.5 (D) mm (53/4 × 67/8 × 14 inches)
Mass:	5.5 kg (12 lb 2 oz)
<b>VIDEO</b>	
LINE	Loop-through BNC 1.0 Vp-p, sync negative, Automatic 75 Ω termination <sup>*4</sup>
RGB/Component <sup>*5</sup>	BNC
R/R-Y:	0.7 Vp-p, 75 Ω
G/Sync on Green/Y:	Composite: 1.0 Vp-p, sync negative, 75 Ω Non-composite: 0.7 Vp-p, 75 Ω
B/B-Y:	0.7 Vp-p, 75 Ω
External sync	BNC 4.0 Vp-p negative, 75 Ω
<b>AUDIO</b>	
LINE	Loop-through Phono -5 dBu, high impedance
RGB/Component	Phono -5 dBu, high impedance

\*1 The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*2 Capable of 100 to 240 V operation.

\*3 Excluding all protruding parts.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

\*5 RGB and Component (Y/R-Y/B-Y) input is selectable with a switch.

# 1-1 Color video monitors

## 27" PVM-2950Q (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>)

### Cubic Style Monitor

- Switchable aspect ratio (4:3 and 16:9)
- A high resolution of 600 TV lines
- Beam current feedback circuit for stability in the color balance
- On-screen menu for adjustment/operation
- Accepts Composite video, Y/C and Component(Y/R-Y/B-Y or RGB) signals
- Supplied wireless remote control unit RM-854 controls all monitor functions

Supplied accessories: AC Power Cord  
AC Plug Holder  
Remote Commander RM-854  
Battery for RM-854  
Operation Manual

Optional accessories: Speaker System SS-X7A  
TV Tuner Unit TU-1041U



### Specifications

Video signal system: EIA 525 lines, 60 fields /CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)  
Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>\*1 (automatically selected)  
Picture tube: 72.9 cm (29-inch), Super Trinitron tube, visible picture size 67.5 cm (27-inch) measured diagonally, 110° deflection  
Horizontal resolution: 600 TV lines  
Audio power output: 7 W + 7 W, 8 to 16 Ω  
Power requirements: AC 120 V, 50/60 Hz  
Power consumption: 165 W (typical)  
Dimensions\*: 687 (W) × 538 (H) × 529 (D) mm (27<sup>1</sup>/<sub>8</sub> × 21<sup>1</sup>/<sub>4</sub> × 20<sup>7</sup>/<sub>8</sub> inches)  
Mass: 52 kg (114 lb 10 oz)

### VIDEO

LINE 1/2  
Composite\*: Loop-through BNC  
1.0 Vp-p, sync negative, Automatic 75 Ω termination\*<sup>4</sup>  
Y/C\*: Loop-through 4-pin Mini DIN  
Y (luminance): 1.0 Vp-p, sync negative, Automatic 75 Ω termination\*<sup>4</sup>  
C (chrominance): NTSC: 0.286 Vp-p, Automatic 75 Ω termination\*<sup>4</sup>  
PAL: 0.3 Vp-p, Automatic 75 Ω termination\*<sup>4</sup>



LINE 3  
RGB/Component: BNC  
R/R-Y: 0.7 Vp-p, 75 Ω  
Sync on G/G/Y:  
Composite: 1.0 Vp-p, sync negative, 75 Ω  
Non-composite: 0.7 Vp-p, 75 Ω  
B/B-Y: 0.7 Vp-p, 75 Ω  
Sync:  
Composite sync: BNC  
Analog level: 0.5 to 5.0 Vp-p, high impedance,  
positive/negative  
TTL level: positive/negative  
HD/VD separate: BNC  
Analog level: 0.5 to 5.0 Vp-p, high impedance,  
positive/negative  
TTL level: positive/negative

### AUDIO

LINE 1/2 Loop-through Phono (x2)  
-5 dBu, high impedance  
LINE 3 Phono (x2)  
-5 dBu, high impedance



RM-854

\*1 The NTSC<sub>4.43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*2 Excluding all protruding parts.

\*3 Y/C input has priority over the Composite video input.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-1 Color video monitors

## 18" PVM-20S1WU (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

### Color Video Monitor

• 16:9 aspect ratio CRT with dark panel for high contrast image reproduction • Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals • Beam current feedback circuit for stability in the color balance • Optional Component Serial Digital Interface Kits BKM-101C (video)/102 (audio) available • Switchable aspect ratio (4:3 and 16:9) • Color temperature D65, D93 or user preset (3200 K to 10000 K) selectable • On-screen display for adjustment/operation • User preset function • Underscan, Blue Only and H/V delay mode available • Auto chroma/phase set-up\*1 • Accepts external sync • Digital 3-line comb filter • Auto/Manual degaussing • Mountable into an EIA standard rack with the optional Slide Rail Kit SLR-103A

Supplied accessories: 20-pin Remote Cable  
Tally Label  
AC Power Cord  
AC Plug Holder  
Blind Panel Kit for SLR-103A\*  
Operation Manual

Optional accessories: Component Serial Digital Interface Kit (video)  
BKM-101C  
Component Serial Digital Interface Kit (audio)  
BKM-102  
Serial Remote Control Kit (for RS-422A) BKM-103  
Slide Rail Kit\* SLR-103A

\*Because the bezel protrudes from the rack when you mount the PVM-20S1WU, you cannot completely insert the SLR-103A.  
The Blind Panel Kit is supplied to cover the exposed part of the slide rail.



### Specifications

CRT:	AG pitch:	Variable pitch 0.65 to 0.75 mm
	Phosphor:	P-22
	Visible screen size:	46 cm (18inch) diagonally
Resolution:		300TV lines
Color system:		NTSC, PAL, SECAM, NTSC <sup>4,43</sup> *2
Aperture correction:		0 to +6 dB
Frequency response:	LINE:	6 MHz ( $\pm 3$ dB) *Y signal only
	RGB:	6 MHz ( $\pm 3$ dB)
Synchronization:		AFC time constant 1.0 mS
Normal scan:		7% over scan
Under scan:		5% under scan
Linearity:	H:	less than 8% (typical)
	V:	less than 7% (typical)
Convergence		
Center:		0.6 mm (typical)
Peripheral:		1.2 mm (typical)
Raster size stability:	H:	1.0%
	V:	1.5%
HV regulation:		4.0%
Color temperature:		D65, D93, USER (3200 K to 10000 K)
Speaker out:		0.8 W (distortion: less than 5%)
Power consumption:		100 W (with SDI: 110 W)
AC input range:		AC 220 to 240 V (50/60 Hz)
Operation temperature:		0 to 35 °C (32 to 95 °F)
Strage temperature:		-10 to 40 °C (14 to 104 °F)
Operation humidity:		35 to 85% (no condensation)
Strage humidity:		0 to 90%
Dimensions*3:		482 (W) × 397 (H) × 503 (D) mm (19 × 15 <sup>3</sup> / <sub>4</sub> × 19 <sup>7</sup> / <sub>8</sub> inches)
Mass:		Approx. 25 kg (55 lb 2 oz) (including SDI: 26 kg (57 lb 5 oz))

### Inputs/Outputs

Line A/B: <sup>4</sup>	1.0 Vp-p $\pm 6$ dB Loop-through BNC automatic 75 Ω termination <sup>*5</sup>
Line C: <sup>4</sup>	Y: 1.0 Vp-p $\pm 6$ dB C: (NTSC): 0.286 Vp-p $\pm 6$ dB (PAL): 0.3 Vp-p $\pm 6$ dB Loop-through Mini DIN 4-pin automatic 75 Ω termination <sup>*5</sup>
RGB/Component (selectable): <sup>*6</sup>	R/R-Y: 0.7 Vp-p $\pm 6$ dB G: 0.7 Vp-p $\pm 6$ dB Sync on G: 0.3 Vp-p $\pm 6$ dB Y: 1.0 Vp-p $\pm 6$ dB B/B-Y: 0.7 Vp-p $\pm 6$ dB Loop-through BNC automatic 75 Ω termination <sup>*5</sup>
External sync:	4.0 Vp-p $\pm 6$ dB, negative Loop-through BNC automatic 75 Ω termination <sup>*5</sup>

### Regulation Compliance:

UL1950, DHHS, FCC Class-A, CSA, DNHW,  
IC Class-A, EN60950, EN55022 Class-B,  
EN50082-1, EN60555-2

\*1 Phase set-up is for NTSC signals only.

\*2 The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

\*3 Excluding all protruding parts.

\*4 The Y/C input has priority over the Composite video input.

\*5 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

\*6 Video amplitude 100/0/100 color bars.

# 1-1 Color video monitors

## 27" PGM-200R2U

### Color Graphic Monitor

- Capable of displaying VGA graphics (fH: 31.5 kHz, fV: 60 Hz), line-doubled NTSC signals (fH: 31.5 kHz, fV: 60 Hz) and line-doubled PAL signals (fH 31.25 kHz, fV 50 Hz)
- Optional Cooling Fan Unit BKM-202FN can be installed to provide extra ventilation for enclosed areas such as custom-built cabinets (note: Call your authorized Sony dealer for installation details)
- Optional remote control unit RM-921
- Wide range power supply switchable between 100 to 120 V and 220 to 240 V AC

Supplied accessories: AC Power Cord  
AC Plug Holder  
Ferrite Core (2)  
Operating Instructions

Optional accessories: Remote Commander RM-921  
Cooling Fan Unit BKM-202FN

### Specifications

#### Picture performance

CRT: 29-inch Super Trinitron tube, visible picture size 675 mm (27-inch viewable area, measured diagonally), AG pitch (variable) 0.70 to 0.85 mm, Anti-glare and Anti-static

Resolution: 640 × 480 dots max.  
Scanning frequency: fH: 31.5 kHz fV: 60 Hz  
fH: 31.25 kHz fV: 50 Hz

Frequency response: 16 MHz (-3 dB)  
Line pull range: Horizontal: ±500 Hz

Zooming: Vertical: -8 Hz  
Color temperature: Within 5%  
9300 K (standard)/6500 K switchable

#### Input/Output

Input:  
R, G, B: BNC  
0.714 Vp-p/non-composite, 75 Ω terminated  
1.0 Vp-p/composite, 75 Ω terminated  
HD/COMP, VD: BNC  
H (or composite) sync, V sync  
5.0 Vp-p, high impedance  
Audio (L, R): Phono  
5 dBu, high impedance

Output:  
R, G, B: BNC  
0.714 Vp-p/non-composite, 75 Ω terminated  
HD/COMP, VD: BNC  
H (or composite) sync, V sync  
5.0 Vp-p, high impedance  
Audio (L, R): Phono  
Audio gain ±1.0 dB typical  
Total harmonic distortion less than 1%, 5 dBu  
12 V DC OUT (for BKM-202FN):  
12 V DC 200 mA max.

Control S IN/OUT: Mini jack

#### General

Power requirements: 100 V to 120 V/220 V to 240 V AC selectable, 50/60 Hz  
Preset: 100 to 120 V  
(UL listed for 100 to 120 V operation)

Power consumption: 183 W max.  
Operating temperature: 0 to 35 °C (32 to 95 °F)  
Dimensions\*: 687 (W) × 538 (H) × 520 (D) mm  
(27 1/8 × 21 1/4 × 20 1/2 inches)  
Mass: Approx. 51.5 kg (113 lb 8 oz)

#### Regulation Compliance

UL1950, CSA 22.2 No.950, EN60950,  
FCC Class-A, IC Class-A, EN55022 Class-B,  
EN50082-1, EN60555-2, VCCI, DHHS, DNHW, PTB



\* Including all protruding parts.

# 1-1 Color video monitors

## 13" PGM-100P1MD

### Color Graphic Monitor for medical use

•High contrast anti-reflection coated Trinitron CRT •Light output of 160 nits •Multiscan capability: fH: 30 to 65 kHz, fV: 50 to 120 Hz, 640 × 480 to 1280 × 1024 dots •BNC input with loop-through output •Built-in speaker •DC 5 V/1 A output •World-wide medical safety approval for professional medical use •Control inhibit function prevents the inadvertent touching of control panel from changing the settings •Fluid resistant cabinet and flush surface using a sheet-key •GCX mount or optional swivel stand installation capability •Power saving function

Supplied accessories: AC Power Cord

Instruction Manual

Optional accessories:

Monitor Stand SU-556

Signal Cable SMF-400

(D-sub 15-pin to 5 BNC cable)



### Specifications

#### General

Scanning frequency:

VGA to SVGA

Horizontal: 30 to 65 kHz

Vertical: 50 to 120 Hz

Power requirements:

100 to 120 V, 220 to 240 V, 50/60 Hz

Power consumption:

130 W (max.), 7 W (standby)

Dimensions\*:

368 (W) × 343 (H) × 391 (D) mm

(14½ × 13⅝ × 15½ inches)

Mass:

Approx. 15 kg (33 lb 1 oz)

#### CRT performance

CRT type:

37 cm (14-inch) Trinitron CRT with P-22 phosphors,

visible picture size 35.4 cm (13-inch) (min.)

measured diagonally, AG pitch 0.25 mm,

90° deflection

Resolution:

640 × 480 to 1280 × 1024 dots

Color temperature:

9300 K/5000 K/USER

#### Input performance

R/G/B:

Loop-through BNC

0.7 Vp-p, Automatic 75 Ω termination

HD/VD:

Loop-through BNC

TTL level, Automatic 2.2 kΩ termination

#### Audio performance

Speaker out:

Loop-through phono jack -5 dBu, more than 47 kΩ

0.2 W, monaural



DISPLAY  
PRODUCTS

\*Including all protruding parts.

# 1-2 Flat panel monitor

## PFM-510A2WU

### Flat Panel Monitor

•16:9 aspect, 42-inch diagonal Plasma Display Panel  
•1024 × 1024 pixels resolution, 16.8 million colors •Accepts video (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL60 and DTV<sup>\*1</sup>) and computer signals up to UXGA with new high performance scan converter •Option slot •On-Screen display in six languages •Carrying handles and unique retractable feet for easy handling capability •Self diagnosis function and detachable power supply block for easy maintenance access •Various remote control capabilities: supplied remote control unit RM-921, Control-S or RS-232C •7 W + 7 W built-in amplifier •Audio monitor out

Supplied accessories: AC Power Cord  
AC Plug Holder  
Remote Commander RM-921  
AA (R6) Battery (2)  
Connector Cover (2)  
Foot Support Bracket (2)  
Ferrite Core (2)  
Operation Manual

Optional accessories: Speaker System SS-X500A  
Mounting Bracket MB-514  
SDI 4:2:2 Input Adaptor BKM-501D



DISPLAY  
PRODUCTS

### Specifications

#### Picture performance

##### Panel:

Resolution: 1024 × 1024 pixels  
Pixel pitch: 0.90 × 0.51 mm  
Active area (W/H): 920 × 518 mm  
42-inch/1,058 mm (measured diagonally)  
Driver: 10-bit RGB  
Colors: 16.8 million simultaneously  
Type: AC-type Plasma Display Panel with anti-reflection screen

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL60

Sampling rate: 13.5 to 140 MHz offset phase max.

Preset signals: 39 formats

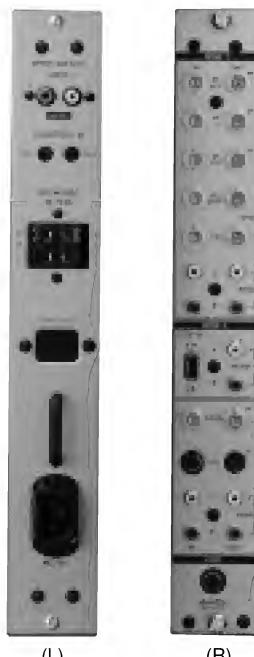
#### Inputs/Outputs

RGB 1: BNC  
RGB: 0.714 Vp-p/non-composite, 1.0 Vp-p/composite,  
75 Ω automatic termination, loop-through  
YUV: 0.7 Vp-p/non-composite (U/V), 1.0 Vp-p/composite  
(Y), 75 Ω automatic termination, loop-through  
HD/COMP, VD: H (or composite) sync, V sync, 1.0 to 5.0 Vp-p,  
high impedance, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through  
RGB 2:  
RGB: 0.714 Vp-p/non-composite, 75 Ω, 1.0 Vp-p/composite  
External sync: H (or composite) sync, V sync, 1.0 to 5.0 Vp-p,  
high impedance, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through

LINE:  
Composite: BNC, 1.0 Vp-p, sync negative,  
75 Ω automatic termination, loop-through  
Y/C: Mini DIN 4-pin connector  
Y: 1.0 Vp-p, sync negative  
C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL),  
75 Ω automatic termination, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through  
Sync signal: External H/V separate sync or composite sync,  
Sync-on-Green, automatic  
\*Tri-level sync is available for HDTV

Audio output:  
Speakers terminal: 6 to 16 Ω, 7 W + 7 W (at 8 Ω)  
Monitor out (L/R): Phono, 500 mV rms at Volume max.,  
attenuation 0 dB to ∞ (variable),  
total harmonic distortion less than 1%

Remote:  
RS-232C: Mini DIN 8-pin  
Control S IN/OUT: Stereo mini jack, 5.0 Vp-p



#### General

Power requirements/  
Power consumption: 100 to 120V, 50/60 Hz, 4.7 A, 410 W  
Operating temperature: 0 to 35 °C (32 to 95 °F)  
Storage temperature: -10 to 40 °C (14 to 104 °F)  
Humidity: 20 to 90%, no condensation  
Dimensions\*: 1036 (W) × 636 (H) × 152 (D) mm  
(40 1/4 × 25 × 6 1/4 inches)  
Mass: Approx. 45 kg (99 lb 3 oz)

#### Regulation compliance

UL 1950 listed, CSA 22.2 No.950, TÜV EN 60 950  
(CE LVD), C-Tick, FCC Class A, IC Class A,  
CE EN 55 022 Class-A/EN 50 082-2/EN 60 555-2,  
VCCI-A

\*1 1080/24PsF, 1080/50I, 575/50P, 480/60P, 1080/60I and 720/60P DTV signals are supported.

\*2 Including all protruding parts.

# 1-2 Flat panel monitor

## PFM-500A3WU

### Flat Panel Monitor

- 16:9 aspect, 42-inch diagonal Plasma Display Panel
- 852 × 480 pixels resolution, 16.8 million colors • Accepts video (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL60 and DTV<sup>\*1</sup>) and computer signals up to UXGA with new high performance scan converter • Option slot • On-Screen display in six languages • Carrying handles and unique retractable feet for easy handling capability • Self diagnosis function and detachable power supply block for easy maintenance access • Various remote control capabilities: supplied remote control unit RM-921, Control-S or RS-232C • 7 W + 7 W built-in amplifier • Audio monitor out

Supplied accessories: AC Power Cord  
AC Plug Holder  
Remote Commander RM-921  
AA (R6) Battery (2)  
Connector Cover (2)  
Foot Support Bracket (2)  
Ferrite Core (2)  
Operation Manual

Optional accessories: Speaker System SS-X500A  
Mounting Bracket MB-514  
SDI 4:2:2 Input Adaptor BKM-501D



### Specifications

#### Picture performance

##### Panel:

Resolution: 852 × 480 pixels  
Pixel pitch: 1.08 × 1.08 mm  
Active area (W/H): 920 × 518 mm  
42-inch/1,056 mm (measured diagonally)  
Driver: 8-bit RGB  
Colors: 16.8 million simultaneously  
Type: AC-type Plasma Display Panel with anti-reflection screen

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL60

Sampling rate: 13.5 to 140 MHz offset phase max.

Preset signals: 39 formats

#### Inputs/Outputs

RGB 1:  
RGB: 0.714 Vp-p/non-composite, 1.0 Vp-p/composite,  
75 Ω automatic termination, loop-through  
YUV: 0.7 Vp-p/non-composite (U/V), 1.0 Vp-p/composite  
(Y), 75 Ω automatic termination, loop-through  
HD/COMP, VD:  
H (or composite) sync, V sync, 1.0 to 5.0 Vp-p,  
high impedance, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through  
RGB 2:  
RGB: 0.714 Vp-p/non-composite, 75 Ω, 1.0 Vp-p/composite  
External sync: H (or composite) sync, V sync, 1.0 to 5.0 Vp-p,  
high impedance, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through

LINE:  
Composite: BNC, 1.0 Vp-p, sync negative,  
75 Ω automatic termination, loop-through  
Y/C: Mini DIN 4-pin connector  
Y: 1.0 Vp-p, sync negative  
C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL),  
75 Ω automatic termination, loop-through  
Audio (L/R): Phono, 500 mV rms, high impedance, loop-through  
Sync signal: External H/V separate sync or composite sync,  
Sync-on-Green, automatic  
\*Tri-level sync is available for HDTV

Audio output:  
Speakers terminal: 6 to 16 Ω, 7 W + 7 W (at 8 Ω)  
Monitor out (L/R): Phono, 500 mV rms at Volume max.,  
attenuation 0 dB to ∞ (variable),  
total harmonic distortion less than 1%

Remote:  
RS-232C: Mini DIN 8-pin  
Control S IN/OUT: Stereo mini jack, 5.0 Vp-p



(L)

(R)

#### General

Power requirements/  
Power consumption: 100 to 120 V, 50/60 Hz, 3.9 A, 380 W  
Operating temperature: 0 to 35 °C (32 to 95 °F)  
Storage temperature: -10 to 40 °C (14 to 104 °F)  
Humidity: 20 to 90%, no condensation  
Dimensions\*: 1036 (W) × 636 (H) × 152 (D) mm  
(40 5/8 × 25 × 6 1/4 inches)  
Mass: Approx. 45 kg (99 lb 3 oz)

#### Regulation compliance

UL 1950 listed, CSA 22.2 No.950, TÜV EN 60 950  
(CE LVD), C-Tick, FCC Class A, IC Class A,  
CE EN 55 022 Class-A/EN 50 082-2/EN 60 555-2,  
VCCI-A

\*1 1080/24PsF, 1080/50I, 575/50P, 480/60P, 1080/60I and 720/60P DTV signals are supported.

\*2 Including all protruding parts.

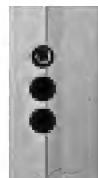
# 1-3 LCD monitor

## 10.2" LMD-1041

### Multi-input LCD Monitor

- Lightweight and compact design •Accepts not only computer signals (fH: 15 to 36 kHz), but also a wide variety of video signals •Remarkably beautiful color reproduction with the brilliant full-color, high resolution LCD panel
- Underscan function available •ID remote control available for easy operation when using multiple monitors •Stereo speaker available •Kensington MicroSaver Security System® wire can be attached as a security measure •On-screen menu for facilitated operation

Supplied accessories: Stand  
Screws to secure stand (x2)  
AC Power Cord  
Remote Commander RM-LMD1041  
Operating Instructions



### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields\*  
Color system: NTSC/PAL\*  
Scanning frequency: VGA, Macintosh 13-inch mode  
(fH: 15 to 36 kHz, fV: 45 to 73 Hz)  
Panel type: a-Si TFT Active Matrix LCD  
10.4-inch (264 mm) diagonal, viewable area  
10.2-inch (259.3 mm) (NTSC) diagonal  
10.4-inch (264 mm) (PAL, Computer)  
Pixel area: 211 (H) x 158 (V) mm  
(8 3/8 x 6 1/4 inches)  
10.4-inch (264 mm) diagonal  
Number of dots: RGB 640 x 480 dots  
Display color: Analog full color  
Backlight: Cold cathode fluorescent light  
Power requirements: AC 100 to 240 V, 50/60 Hz  
Power consumption: 28 W max. (normal operation)  
7 W max. (standby)  
Storage temperature: -20 to 60 °C (-4 to 140 °F)  
Operating temperature: 5 to 35 °C (41 to 95 °F)  
Dimensions: 305 (W) x 215.3 (H) x 57.4 (D) mm  
(12 x 8 4/9 x 2 1/4 inches)  
(stand not included)  
Mass: Approx. 2 kg (4 lb 6 oz)  
(stand not included)

#### Video

Line A: Loop-through BNC  
1.0 Vp-p ±2 dB sync negative, 75 Ω  
Line B: Loop-through Mini DIN 4-pin  
Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω  
C: NTSC 0.286 Vp-p ±2 dB,  
PAL 0.3 Vp-p ±2 dB, 75 Ω  
Line C: HD D-sub 15-pin  
YUV: R-Y/B-Y: 0.7 Vp-p  
Y: 1.0 Vp-p (sync 0.3 V)  
R/B/G: 0.7 Vp-p  
C sync: 1.0 Vp-p

#### Computer

Computer: HD D-sub 15-pin (Line C)  
RGB: 0.7 Vp-p, 75 Ω  
Sync:  
Composite sync: TTL level negative  
Separate sync: TTL level negative/positive  
Sync on G: 0.3 Vp-p, negative

#### Audio

Audio signal: Mini jack  
Input: Audio input -5 dBu, 47 kΩ or more  
Output: Headphone 16 Ω or more  
Speaker 0.5 W + 0.5 W

\* Line reduction for PAL signals.

# 1-4 Monochrome video monitors

## 13" PVM-136 (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • Switchable aspect ratio (4:3 and 16:9) • A high resolution of 1000 TV lines at center
- Incorporates a CRT with D65 • H/V delay and Underscan capability • Equipped with a notch filter • Built-in speaker for audio monitoring • Accepts external sync • Tally input • Rack mountable with the optional Mounting Bracket MB-502B and Slide Rail Kit SLR-102

Supplied accessories: AC Power Cord, AC Plug Holders, Number Plate (1 set), Remote Connector 8-pin, Operation Manual

Optional accessories: Mounting Bracket MB-502B  
Slide Rail Kit SLR-102



### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields /CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 34.0 cm (14-inch) CRT, 32.1 cm (13-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 1000 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*1</sup>, 50/60 Hz

Power consumption: 30 W

Dimensions<sup>\*2</sup>: 346 (W) × 340 (H) × 330 (D) mm  
(13<sup>5/8</sup> × 13<sup>1/2</sup> × 13 inches)

Mass: 11 kg (24 lb 4 oz)



#### VIDEO

Line A/B:

Loop-through BNC

1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*3</sup>

Loop-through BNC

1.0 to 4.0 Vp-p negative, Automatic 75 Ω termination<sup>\*3</sup>

#### AUDIO

Line A/B:

Loop-through Phono

-5 dBu, high impedance

DISPLAY  
PRODUCTS

\*1 Capable of 100 to 240 V operation.

\*2 Excluding all protruding parts.

\*3 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

## 13" PVM-137<sup>\*1</sup> (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • A high resolution of 1000 TV lines at center • Underscan capability • Built-in speaker for audio monitoring • Accepts external sync • Tally input • Rack mountable with the optional Mounting Bracket MB-502B and Slide Rail Kit SLR-102

Supplied accessories: AC Power Cord, AC Plug Holders, Number Plate (1 set), Operation Manual

Optional accessories: Mounting Bracket MB-502B  
Slide Rail Kit SLR-102



### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields /CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 34.0 cm (14-inch) CRT, 32.1 cm (13-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 1000 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*2</sup>, 50/60 Hz

Power consumption: 30 W

Dimensions<sup>\*3</sup>: 346 (W) × 340 (H) × 330 (D) mm  
(13<sup>5/8</sup> × 13<sup>1/2</sup> × 13 inches)

Mass: 11 kg (24 lb 4 oz)



#### VIDEO

Line A/B:

Loop-through BNC

1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*4</sup>

Loop-through BNC

1.0 to 4.0 Vp-p negative, Automatic 75 Ω termination<sup>\*4</sup>

#### AUDIO

Line A/B:

Loop-through Phono

-5 dBu, high impedance

\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 Capable of 100 to 240 V operation.

\*3 Excluding all protruding parts.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-4 Monochrome video monitors

## 13" PVM-135<sup>\*1</sup> (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • A high resolution of 1000 TV lines at center • Built-in speaker for audio monitoring
- Accepts external sync • Rack mountable with the optional Mounting Bracket MB-502B and Slide Rail Kit SLR-102

Supplied accessories: AC Power Cord, AC Plug Holders, Operation Manual

Optional accessories: Mounting Bracket MB-502B  
Slide Rail Kit SLR-102

### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields /CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 34.0 cm (14-inch) CRT, 32.1 cm (13-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 1000 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*2</sup>, 50/60 Hz

Power consumption: 30 W

Dimensions<sup>\*3</sup>: 346 (W) × 340 (H) × 330 (D) mm  
(13<sup>5</sup>/<sub>8</sub> × 13<sup>1</sup>/<sub>2</sub> × 13 inches)

Mass: 11 kg (24 lb 4 oz)

#### VIDEO

Line A/B: Loop-through BNC

1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*4</sup>

External sync: Loop-through BNC

1.0 to 4.0 Vp-p negative,

Automatic 75 Ω termination<sup>\*4</sup>

#### AUDIO

Line A/B: Loop-through Phono

-5 dBu, high impedance



\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 Excluding all protruding parts.

\*3 Capable of 100 to 240 V operation.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

## 9" PVM-96 (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • Switchable aspect ratio (4:3 and 16:9) • A high resolution of 900 TV lines at center
- Incorporates a CRT with D65 • H/V delay and Underscan capability • Equipped with a notch filter • Built-in speaker for audio monitoring • Accepts external sync • Tally input
- Rack mountable with a second PVM-96 (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord, AC Plug Holders, Remote Connector 8-pin, Operation Manual

Optional accessories: Mounting Panel MB-509  
Mounting Bracket MB-520

### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 23.0 cm (9-inch) CRT, 21.7 cm (9-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 900 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*1</sup>, 50/60 Hz

Power consumption: 28 W

Dimensions<sup>\*2</sup>: 217 (W) × 218 (H) × 250 (D) mm  
(8<sup>5</sup>/<sub>8</sub> × 8<sup>5</sup>/<sub>8</sub> × 9<sup>7</sup>/<sub>8</sub> inches)

Mass: 5.5 kg (12 lb 2 oz)



#### VIDEO

Line A/B:

Loop-through BNC

1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*3</sup>

External sync:

Loop-through BNC,

1.0 to 4.0 Vp-p negative, Automatic 75 Ω termination<sup>\*3</sup>

#### AUDIO

Line A/B:

Loop-through Phono

-5 dBu, high impedance

\*1 Capable of 100 to 240 V operation.

\*2 Excluding all protruding parts.

\*3 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-4 Monochrome video monitors

## 9" PVM-97<sup>\*1</sup> (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • A high resolution of 900 TV lines at center
- Underscan capability • Built-in speaker for audio monitoring
- Accepts external sync • Tally input
- Rack mountable with a second PVM-97 (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord, AC Plug Holders, Operation Manual

Optional accessories: Mounting Panel MB-509  
Mounting Bracket MB-520

### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 23.0 cm (9-inch) CRT, 21.7 cm (9-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 900 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*2</sup>, 50/60 Hz

Power consumption: 28 W

Dimensions<sup>\*3</sup>: 217 (W) × 218 (H) × 250 (D) mm  
(8<sup>5</sup>/<sub>8</sub> × 8<sup>5</sup>/<sub>8</sub> × 9<sup>7</sup>/<sub>8</sub> inches)

Mass: 5.5 kg (12 lb 2 oz)

#### VIDEO

Line A/B: Loop-through BNC

External sync: 1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*4</sup>



#### AUDIO

Line A/B:

Loop-through Phono  
-5 dBu, high impedance

<sup>\*1</sup> Not available in some areas. For details, please contact your nearest Sony office.

<sup>\*2</sup> Capable of 100 to 240 V operation.

<sup>\*3</sup> Excluding all protruding parts.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

## 9" PVM-95<sup>\*1</sup> (EIA/CCIR)

### Black & White Monitor

- EIA/CCIR automatic selection • A high resolution of 900 TV lines at center
- Built-in speaker for audio monitoring
- Accepts external sync • Rack mountable with a second PVM-95 (or an optional Mounting Panel MB-509) by using the optional Mounting Bracket MB-520

Supplied accessories: AC Power Cord, AC Plug Holders, Operation Manual

Optional accessories: Mounting Panel MB-509  
Mounting Bracket MB-520

### Specifications

#### General

Video signal system: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)

Picture tube: 23.0 cm (9-inch) CRT, 21.7 cm (9-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 900 TV lines at center

Audio power output: Monoaural, 0.5 W with built-in speaker

Power requirements: AC 120 V<sup>\*2</sup>, 50/60 Hz

Power consumption: 28 W

Dimensions<sup>\*3</sup>: 217 (W) × 218 (H) × 250 (D) mm  
(8<sup>5</sup>/<sub>8</sub> × 8<sup>5</sup>/<sub>8</sub> × 9<sup>7</sup>/<sub>8</sub> inches)

Mass: 5.5 kg (12 lb 2 oz)

#### VIDEO

Line A/B: Loop-through BNC

External sync: 1.0 Vp-p, sync negative, Automatic 75 Ω termination<sup>\*4</sup>

Line A/B:



<sup>\*1</sup> Not available in some areas. For details, please contact your nearest Sony office.

<sup>\*2</sup> Capable of 100 to 240 V operation.

<sup>\*3</sup> Excluding all protruding parts.

<sup>\*4</sup> 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

# 1-4 Monochrome video monitors

## 4" PVM-4B1U (EIA/CCIR)

### Black and White Video Monitors

- Ideal for camera monitoring in video studio and surveillance systems with multiple camera installations
- Compatible with EIA and CCIR systems (automatically selected)
- High resolution of 500 TV lines
- Stable picture reproduction with the high voltage regulation circuit
- Accepts an external sync signal
- Loop-through video and sync terminals with automatic 75 Ω termination
- Can be mounted in a standard 19-inch rack
- Individual power and individual controls available

Supplied accessories: AC Power Cord  
AC Plug Holder (1 set)  
Operating Instructions

### Specifications

#### General

System: EIA 525 lines/60 fields, CCIR 625 lines/50 fields (automatically selected)

Frequency response: 10 MHz (-3 dB)

Power requirements: AC 100 to 240 V\*, 50/60 Hz

Power consumption: 59 W

Dimensions: 483 (W) × 133 (H) × 356 (D) mm (19 $\frac{1}{8}$  × 5 $\frac{1}{4}$  × 14 $\frac{1}{8}$  inches)

Mass: 11.7 kg (25 lb 13 oz)

Operating temperature: 0 to 35°C (32 to 95°F)

Operating humidity: 0 to 90%

#### CRT performance

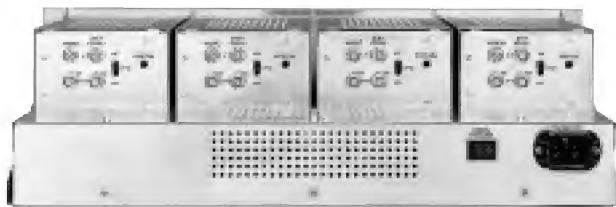
CRT type: 10.0 cm (4-inch) CRT, visible picture size 9.4 cm (3  $\frac{3}{4}$  inches) (min.) measured diagonally, 50° deflection

Resolution: 500 TV lines

#### Picture performance

Normal scan: 7% overscan

Linearity: H: less than 8%, V: less than 7%



#### Input performance

VIDEO: Loop-through BNC

1.0 Vp-p ±6 dB, sync negative, automatic 75 Ω termination

EXT SYNC: Loop-through BNC

0.5 to 4.0 Vp-p, sync negative, automatic 75 Ω termination

Safety regulations: UL1950, CSA950, DHHS, DNHW, FCC Class A, IC Class A

\*UL listed for 120 V operation.

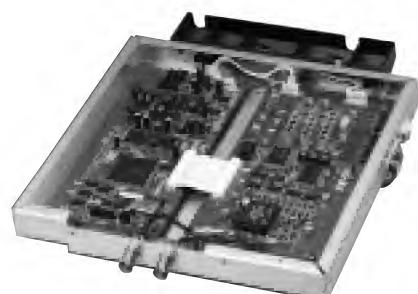
## 1-5 Monitor accessories

### BKM-101C/102

#### Component Serial Digital Interface Kit 101C (video)/102 (audio)

- Component serial digital interface for PVM-20M4U/20M2U/20S1WU/14M4U/14M2U

Mass:      BKM-101C: 820 g (1 lb 13 oz)  
              870 g (1 lb 15 oz)  
              (with installation kit for PVM-20M4U/20M2U/20S1WU)  
BKM-102: 130 g (4.6 oz)



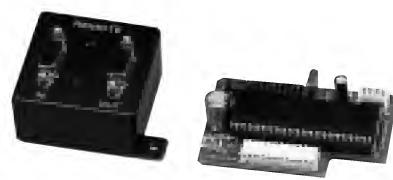
BKM-101C/102

### BKM-103

#### Serial Remote Control Kit

- RS-422 serial remote control kit for PVM-20M4U/20M2U/20S1WU/14M4U/14M2U

Mass: 157 g (5.5 oz)



DISPLAY  
PRODUCTS

### RM-921

#### Remote Commander

- Remote control unit for PGM-200R2U

Dimensions: 43 (W) × 213 (H) × 25 (D) mm  
(1¾ × 8½ × 1 inches)  
Mass: 125 g (4 oz) with batteries



### BKM-202FN

#### Cooling Fan Unit

- Designed exclusively for the PGM-200R2U
- Prevents heat build up inside the cabinet by powerfully ventilating the air out of the monitor
- DC 12 V supplied from the monitor

Dimensions: 80 (W) × 80 (H) × 25 (D) mm  
(3¼ × 3¼ × 1 inches)  
Mass: 125 g (4 oz)



## 1-5 Monitor accessories

### BKM-501D

#### SDI 4:2:2 Input Adaptor

- Input adaptor for PFM-510A2WU/500A3WU
- SDI video and audio decoding

Dimensions: 53 (W) × 359 (H) × 260 (D) mm  
( $2\frac{1}{8}$  ×  $14\frac{1}{4}$  ×  $10\frac{1}{4}$  inches)

Mass: Approx. 1.8 kg (3 lb 15 oz)



### MB-502B

#### Mounting Bracket

- Bracket for PVM-14M4U/14M2U/14M2MDU/14N6U/14N5U/  
136/137/135

Dimensions: 483 (W) × 355 (H) × 302 (D) mm  
( $19\frac{1}{8}$  ×  $14$  ×  $12$  inches)

Mass: 3.8 kg (8 lb 6 oz)



### MB-508

#### Mounting Panel

- Blank panel for PVM-5041Q

Dimensions: 146 (W) × 168.5 (H) × 63 (D) mm  
( $5\frac{3}{4}$  ×  $6\frac{3}{4}$  ×  $2\frac{1}{2}$  inches)

Mass: 200 g (7 oz)



### MB-509

#### Mounting Panel

- Blank panel for PVM-8045Q/8043MD/8042Q/8040/96/97/95

Dimensions: 217 (W) × 212.5 (H) × 63 (D) mm  
( $8\frac{5}{8}$  ×  $8\frac{3}{8}$  ×  $2\frac{1}{2}$  inches)

Mass: 400 g (14 oz)



## 1-5 Monitor accessories

### MB-510

#### Mounting Bracket

- Bracket for TU-1041U

Dimensions (with 2 TU-1041U):

482 (W) × 49.3 (H) × 361 (D) mm  
(19 × 2 × 14 $\frac{1}{4}$  inches)

Mass: 300 g (10 oz)



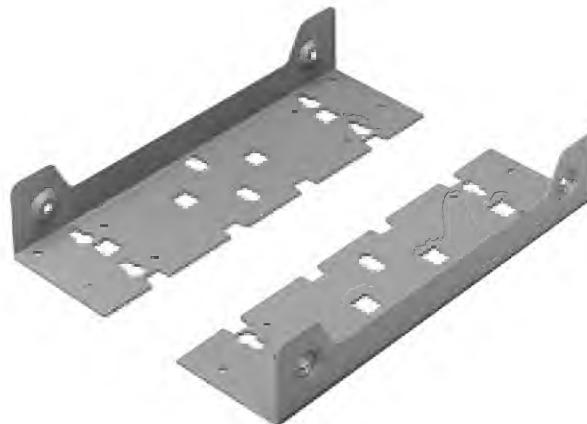
### MB-512

#### Mounting Bracket

- Bracket for attaching TV Tuner Unit TU-1041U to the PVM-8045Q/8042Q/8040/5041Q

Dimensions: 63 (W) × 40 (H) × 210 (D) mm  
(2 $\frac{1}{2}$  × 1 $\frac{5}{8}$  × 8 $\frac{3}{8}$  inches)

Mass: 260 g (9 oz)



DISPLAY  
PRODUCTS

### MB-514

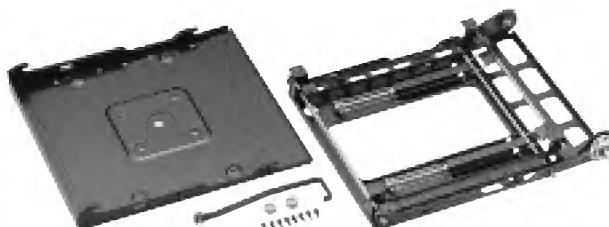
#### Mounting Bracket for PFM-510A2WU/500A3WU

- For wall-mounting installation
- Monitors can be tilted 0 to 20 degrees downward from the wall
- Separate parts for easy installation

Dimensions: Bracket for wall: 455 (W) × 500 (H) × 57 (D) mm  
(18 $\frac{1}{16}$  × 19 $\frac{1}{16}$  × 2 $\frac{1}{4}$  inches)

Bracket for monitor: 470 (W) × 535 (H) × 56.5 (D) mm  
(18 $\frac{5}{8}$  × 21 $\frac{1}{8}$  × 2 $\frac{1}{4}$  inches)

Mass: Bracket for wall: Approx. 5.2 kg (11 lb 7 oz)  
Bracket for monitor: Approx. 5.8 kg (12 lb 13 oz)



### MB-520

#### Mounting Bracket

- 19-inch rack mount kit for 6-inch and 9-inch monitors

Dimensions: 479 (W) × 222 (H) × 422.3 (D) mm  
(18 $\frac{7}{8}$  × 8 $\frac{3}{4}$  × 16 $\frac{3}{4}$  inches)

Mass: 2.7 kg (5 lb 15 oz)



## 1-5 Monitor accessories

### VF-504

#### Monitor ENG Kit

- Monitor hood and cord reel for PVM-5041Q

Dimensions: Hood:

159 (W) × 172 (H) × 160 (D) mm

(6 $\frac{3}{8}$  × 6 $\frac{7}{8}$  × 6 $\frac{3}{8}$  inches)

(with PVM-5041Q):

159 (W) × 178 (H) × 567.5 (D) mm

(6 $\frac{3}{8}$  × 7 $\frac{1}{8}$  × 22 $\frac{3}{8}$  inches)

Mass:

400 g (14 oz)



### VF-505

#### Monitor ENG Kit

- Monitor hood and cord reel for PVM-8045Q/8042Q

Dimensions: Hood:

230 (W) × 215 (H) × 200 (D) mm

(9 $\frac{1}{8}$  × 8 $\frac{1}{2}$  × 7 $\frac{7}{8}$  inches)

(with PVM-8044Q/8041Q):

230 (W) × 222 (H) × 607.5 (D) mm

(9 $\frac{1}{8}$  × 8 $\frac{3}{4}$  × 24 inches)

Mass:

500 g (1 lb 1 oz)



### DC-L10

#### Battery Adaptor

- Attaches a rechargeable Lithium-ion battery pack BP-L60A or BP-L90A to PVM-8045Q/8042Q/5041Q

•Retractable handle

•Easily detachable upper part of adaptor bracket

Operating time\*:

BP-L60A Approx. 100 min. (typical)

BP-L90A Approx. 160 min. (typical)

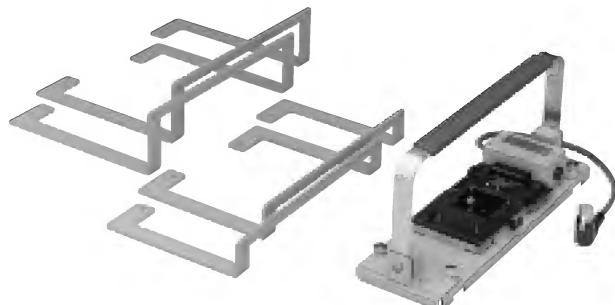
\*Actual operating times may vary.

Dimensions: 315 (W) × 146 (H) × 100 (D) mm  
(12 $\frac{1}{2}$  × 5 $\frac{3}{4}$  × 4 inches)

Mass: With attachment frames for 9-inch monitor: 2.35 kg (5 lb 19 oz)  
With attachment frames for 6-inch monitor: 2.15 kg (4 lb 28 oz)

DC output: DC 12 V, Right angle XLR 4-pin connector (female)

DC fuse: 5 A



### DCC-XLR4

#### Car Battery Cord

- Car battery cord for PVM-8045Q/8042Q/5041Q and TU-1041U

Power requirements:

12 V/24 V DC

Output voltage: 12 V: Max. 5 A

24 V: Max. 5 A

Cord length: 3 m (9 ft 9 inches)

Mass: 175 g (6 oz)



## 1-5 Monitor accessories

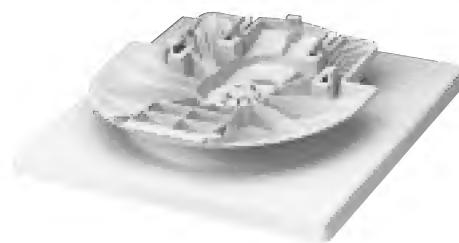
### SU-556

#### Monitor Stand

- Stand for PGM-100P1MD

Dimensions: 240 (W) × 57 (H) × 238 (D) mm  
(9½ × 2¼ × 9¾ inches)

Mass: Approx. 450 g (1 lb)



### SS-X7A

#### Speaker System

- High quality stereo sound by two-way bass-reflex speaker system with cone-type woofer and tweeter

Dimensions: 183 (W) × 280 (H) × 90 (D) mm  
(7¼ × 11⅛ × 3⅝ inches)

Mass: Approx. 1.9 kg per speaker  
(4 lb 3 oz)



DISPLAY  
PRODUCTS

### SS-X500A

#### Speaker System

- Speaker design matches that of PFM-510A2WU/500A3W
- Can be attached to the monitor or mounted separately
- Effective frequency range: 70 to 20000 Hz
- Characteristic sensitivity level: 88 dB (1 W, 1 m)
- Input capability: 120 W

Dimensions: 159 (W) × 634 (H) × 90.3 (D) mm  
(2¼ × 25 × 3⅝ inches)

Mass: Approx. 3.5 kg per speaker  
(Approx. 7 lb 11 oz)



### TU-1041U

#### TV Tuner Unit

- Receives Multi-band American TV standards VHF/UHF and Cable TV channels
- DC operation capability
- Mountable with 5 and 8-inch monitors with the optional Mounting Bracket MB-512

Dimensions: 212 (W) × 49.3 (H) × 361 (D) mm  
(8⅔ × 2 × 14⅓ inches)

Mass: Approx. 2 kg (4 lb 7 oz)

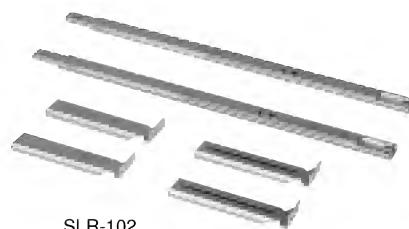


## 1-5 Monitor accessories

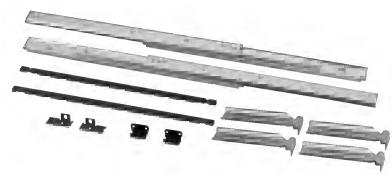
### SLR-102/103A

#### Slide Rail Kit

- SLR-102 for PVM-14M4U/14M2U/  
14M2MDU/14N6U/14N5U/136/137/135  
(used with MB-502B)
- SLR-103A for PVM-20M4U/20M2U/  
20M2MDU/20N6U/20N5U/2950Q/20S1WU



SLR-102



SLR-103A

## 2-1 Multiscan projectors

### VPH-G90U<sup>\*1</sup> (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

• Multiscan capability: horizontal 15 to 150 kHz, vertical 35 to 150 Hz • Incorporates new, high resolution 9-inch electromagnetic focus CRTs • Incorporates a universal optical coupling • Remarkable light output of 350 ANSI lumens<sup>\*2</sup> (150 kHz: 50 Hz, 6500 K), 1300 ANSI lm (peak white), 500 ANSI lm (all white) • High resolution of 700 TV lines (video), 1100 TV lines (HDTV) 2500 x 2000 pixels (RGB, measured at fH: 102 kHz, fV: 50 Hz) • Wide RGB bandwidth of 135 MHz • Wider range of registration adjustments for accurate registration • HACC lens for superior and stable picture performance • Video decoder circuit for enhanced video picture quality • Sony Digital Reality Creation™ • Responds to both analog/digital RGB signals • Supplied wired/wireless remote control unit RM-PJ1001 controls all the projector functions such as set-up adjustments and operational functions • Various optional accessories available for system versatility • Desk top mounted projection, ceiling mounted projection, floor mounted projection and rear projection capabilities • Can be used with screens from 90 to 300 inches in size (viewable area, measured diagonally)

Supplied accessories: Remote Commander RM-PJ1001  
Remote Commander Cable (15 m)  
Adjustment Plate  
AA size Battery (3)  
AC Power Cord  
Operating Manual  
Installation Manual  
Optional accessories: Interface Board IFB-12A/20<sup>\*1</sup>/21<sup>\*1</sup>/40/50/101<sup>\*1</sup>/1000/1200<sup>\*1</sup>/1301  
Signal Interface Cable SIC-10/20A<sup>\*1</sup>/20C<sup>\*1</sup>/22<sup>\*1</sup>/M1<sup>\*1</sup>/M5<sup>\*1</sup>/M15<sup>\*1</sup>/M25<sup>\*1</sup>/M50<sup>\*1</sup>  
Signal Interface Switcher PC-3000<sup>\*1</sup>/1271<sup>\*1</sup>  
Interface Unit IFU-1271<sup>\*1</sup>  
Suspension Support PSS-10/90  
Remote Commander RM-PJD50  
Remote Control Receiver RM-PJ10  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401  
Projection Lens VPHL-9270<sup>\*1</sup>  
100-inch Flat Screen VPS-100FH<sup>\*1</sup>  
120-inch Flat Screen VPS-120FH<sup>\*1</sup>

### Specifications

#### General

Video signal system: CCIR 625 lines, 50 fields/EIA 525 lines, 60 fields (switching of CCIR to EIA or vice versa is automatically done)  
Color system: NTSC/PAL/SECAM/NTSC<sup>4,43</sup> automatically selected  
Brightness: 350 ANSI lumens<sup>\*2</sup> (fH: 150 kHz, fV: 50 Hz, 6500 K)  
130 ANSI lumens (fH: 15 kHz, fV: 60 Hz, 6500 K)  
Peak white: 1300 lm  
All white: 500 lm  
Color temperature: 6500 K  
RGB bandwidth: 135 MHz (-3 dB)  
Resolution: 700 TV lines (video), 1100 TV lines (HDTV)  
2500 x 2000 pixels (RGB, measured at fH: 102 kHz, fV: 50 Hz)  
Scanning frequency:  
Horizontal: 15 to 150 kHz  
Vertical: 38 to 150 Hz  
Test signals: Cross hair, Hatch reverse (9 x 9/17 x 17), Dot (9 x 9), Dot (17 x 17) & Hatch (5 x 5), H/H reverse, ME/ME reverse, All white, Window, Window and line color bar, Pluge, Stair-step, Sub-pattern, Cross (9 x 9), Hatch (5 x 5), 10 IRE, 100 IRE  
Power requirements: AC 120 V, 50/60 Hz  
Power consumption: Max. 1050 W, Standby 14 W, Power saving mode 600 W  
Heat dissipation: 3563.1 BTU  
Mass: Approx. 110 kg (242 lb 8 oz)  
Operating temperature: 0 to 40 °C (14 to 104 °F)  
Operating humidity: 35 to 85%



DISPLAY  
PRODUCTS

#### Inputs/Outputs

Video:  
Composite<sup>\*3</sup>: Loop-through BNC  
1.0 Vp-p, ±2 dB sync negative, 75 Ω automatic termination<sup>\*4</sup>  
Y IN: BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated  
C IN: BNC, Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω terminated or 0.3 Vp-p ±2 dB (PAL), 75 Ω terminated  
Y/C IN<sup>\*3</sup>: Loop-through Mini DIN 4-pin  
Y (luminance): 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination<sup>\*4</sup>  
C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC) 75 Ω automatic termination<sup>\*4</sup>, 0.3 Vp-p ±2 dB (PAL) 75 Ω automatic termination<sup>\*4</sup>  
Input A:  
Analog RGB/  
Component:  
R/Y/P<sub>R</sub>: 0.7 Vp-p, ±2 dB positive, 75 Ω terminated  
G/Y: 0.7 Vp-p, ±2 dB positive, 75 Ω terminated  
G with Sync: 1.0 Vp-p, ±2 dB sync negative, 75 Ω terminated  
B/Y/P<sub>B</sub>: 0.7 Vp-p, ±2 dB positive, 75 Ω terminated  
SYNC/HD: Composite sync: 0.6 to 8.0 Vp-p, high impedance positive/negative  
Horizontal sync: 0.6 to 8.0 Vp-p, high impedance positive/negative  
Vertical sync: 0.6 to 8.0 Vp-p, high impedance positive/negative  
BNC  
VD:  
HDVS (Y/P<sub>B</sub>/P<sub>R</sub>): 1.0 Vp-p ±2 dB, 75 Ω terminated  
Y: Tri-sync: ±0.3 Vp-p, bi-sync: 0.3 Vp-p, ±0.35 Vp-p ±2 dB, 75 Ω  
P<sub>B</sub>/P<sub>R</sub>: BNC  
HDVS (GBR): 1.0 Vp-p ±2 dB, 75 Ω terminated  
G with sync: Tri-sync: ±0.3 Vp-p, bi-sync: 0.3 Vp-p  
B/R: 0.7 Vp-p ±2 dB, 75 Ω terminated  
INPUT B:  
CONTROL S IN/  
PLUG IN POWER:  
CONTROL S OUT:  
REMOTE:  
RS-232C/RS-422A: IN: D-sub 9-pin (female)  
PJ COM (RS-485): IN: D-sub 9-pin (female)  
OUT: D-sub 9-pin (female)  
LINK:  
IN: Stereo mini jack  
OUT: Stereo mini jack  
TRIG:  
Power ON: Mini jack  
DC 12V, Output impedance 4.7 kΩ  
Power OFF: 0 V

\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 ANSI lumens is a measuring method of the American National Standards Institute ANSI IT7.215.

\*3 The Y/C input has priority over the Video input.

\*4 75 Ω termination is automatically set to OFF when connection is made to the OUT connector.

## 2-1 Multiscan projectors

### VPH-G70Q<sup>\*1</sup> (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>/PAL-M)

- Multiscan capability: horizontal 15 to 110 kHz, vertical 38 to 150 Hz
- Incorporates newly developed 8-inch electromagnetic focus CRTs
- Incorporates a universal optical coupling
- Remarkable light output of 240 ANSI lumens<sup>\*2</sup> (fH: 110 kHz, fV: 60 Hz, 6500 K) /200 ANSI lumens (fH: 15 kHz, fV: 60 Hz), Peak white: 1200 lm
- High resolution of 700 TV lines (video)/1100 TV lines (HDTV<sup>\*3</sup>)/1700 × 1200 pixel (RGB in at fH: 74 kHz, fV: 60 Hz)
- Wide RGB bandwidth of 120 MHz
- New hybrid HACC lens for superb, stable picture performance
- Precise registration with the Key/Pin balance mode and 25-point zone adjustment
- Input memory and Video memory available to facilitate set-up
- Independent brightness and color uniformity adjustments
- Incorporates picture orbiting function
- Simplified operation for multi-projection applications such as ABL link and Index operation functions
- Optional internal line-doubler board available
- Video decoder circuit for enhanced video picture quality
- Various optional accessories available for system versatility
- Desk top mounted projection, ceiling mounted projection, floor mounted projection and rear projection capabilities
- Can be used with screens from 60 to 300 inches in size (viewable area, measured diagonally)

DISPLAY  
PRODUCTS



Supplied accessories:	Remote Commander RM-PJ1000 Remote Commander Cable (15 m) Adjusting Plate AA size (R6) Battery (3) AC Power Cord Operation Manual Installation Manual
Optional accessories:	Interface Board IFB-12A/20 <sup>1</sup> /21 <sup>1</sup> /40/50/1000/1200 <sup>1</sup> /1301/1400 Signal Interface Cable SIC-10/20A <sup>1</sup> /20C <sup>1</sup> /21 <sup>1</sup> /22 <sup>1</sup> /M1 <sup>1</sup> /M5 <sup>1</sup> /M15 <sup>1</sup> /M25 <sup>1</sup> /M50 <sup>1</sup> CCQ-BRS Cable CCQ-2BRS/5BRS/10BRS/25BRS/50BRS Signal Interface Switcher PC-1271 <sup>1</sup> Extension Board EXB-DS10 Interface Unit IFU-1271 <sup>1</sup> Suspension Support PSS-10/70 Remote Commander RM-PJM800 <sup>1</sup> Remote Control Receiver RM-PJ10 Mouse Receiver RM-PJ20 <sup>1</sup> Signal Adaptor ADP-10 (HD D-sub 15-pin to D-sub 9-pin for SIC cable) Signal Adaptor ADP-20 (Macintosh to VGA) Signal Cable SMF-400/401 Remote Control Cable RCC-5G/10G/30G (for RS-422A) 100-inch Flat Screen VPS-100FH <sup>1</sup> 120-inch Flat Screen VPS-120FH <sup>1</sup>

#### Specifications

Optical	
Projection system:	3 picture tubes, 3 lenses, direct projection system
Picture tube:	8-inch (phosphor size 6-inch) high luminance, electromagnetic focus tubes
Projection lens:	Double focus, F1.1/135 mm
Screen coverage:	60 to 300 inches measured diagonally, factory preset to 120 inches
Light output:	ANSI <sup>*2</sup> : 240 lm (fH: 110 kHz, fV: 50 Hz, 6500 K) 200 lm (fH: 15 kHz, fV: 60 Hz, 6500 K) 1200 lm (peak white) 320 lm (all white)
Throwing distance:	60-inch 1668 mm (5 ft 5 <sup>11</sup> / <sub>32</sub> inches) 70-inch 1921 mm (6 ft 3 <sup>5</sup> / <sub>8</sub> inches) 100-inch 2689 mm (8 ft 9 <sup>7</sup> / <sub>8</sub> inches) 120-inch 3200 mm (10 ft 5 <sup>31</sup> / <sub>32</sub> inches) 150-inch 3972 mm (13 ft 3 <sup>1</sup> / <sub>8</sub> inches) 200-inch 5254 mm (17 ft 2 <sup>27</sup> / <sub>32</sub> inches) 250-inch 6539 mm (21 ft 5 <sup>7</sup> / <sub>16</sub> inches) 300-inch 7831 mm (25 ft 8 <sup>5</sup> / <sub>16</sub> inches)
Signals	
Color system:	NTSC, PAL, SECAM, NTSC <sup>4,43</sup> , PAL-M
Resolution:	700 TV lines (video) 1100 TV lines (HDTV) 1700 × 1200 pixel (RGB, measured at fH: 74 kHz, fV: 60 Hz)
Scanning frequency:	Horizontal: 15 to 110 kHz Vertical: 38 to 150 Hz
RGB bandwidth:	120 MHz -3 dB
General	
Power requirements:	AC 120 V, 50/60 Hz
Power consumption:	750 W, Standby 7 W
Heat dissipation:	2593.4 BTU
Operating temperature:	0 to 40 °C (32 to 104 °F)
Operating humidity:	35 to 85%
Storage temperature:	-20 to 60 °C (-4 to 140 °F)
Storage humidity:	10 to 90%
Dimensions:	695 (W) × 358 (H) × 948 (D) mm (27 <sup>3</sup> / <sub>8</sub> × 14 <sup>1</sup> / <sub>8</sub> × 37 <sup>5</sup> / <sub>16</sub> inches)
Mass:	Approx. 83 kg (183 lb)
Inputs/Outputs	
Video:	
Composite:	Loop-through BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω
Y IN:	1.0 Vp-p ±2 dB sync negative, 75 Ω
C IN:	Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω
Y/C IN:	Loop-through Mini DIN 4-pin
Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
C:	Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω
Input A:	BNC × 5
Analog RGB/Component:	
R/R-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω,
G with sync/Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
Sync/HD:	Composite sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative Horizontal sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative
VD:	Vertical sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative
HDTV <sup>*3</sup> (Y/Pb/Pr):	Horizontal sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative
Y:	1.0 Vp-p ±2 dB, 75 Ω
Pb/Pr:	Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p ±0.35 Vp-p ±2 dB, 75 Ω
HDTV <sup>*3</sup> (GBR):	Horizontal sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative
G with sync:	1.0 Vp-p ±2 dB, 75 Ω
B/R:	Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p 0.7 Vp-p ±2 dB, 75 Ω
Input B:	Supplied with optional IFB-40:
CONTROL S IN/PLUG IN POWER:	14-pin multi connector (input: male, output: female)
CONTROL S OUT:	Stereo mini jack 5.0 Vp-p, Plug in power DC 5 V, Max. output: 60 mA
REMOTE	Stereo mini jack 5.0 Vp-p
RS-422A:	D-sub 9-pin (female)
ABL Link	RS-422A: IN: Mini-jack OUT: Mini-jack
TRIG:	Power On: DC 5 V, output impedance 4.7 kΩ Power Off: 0 V UL 1950, CSA950, DHHS, DHW, FCC class A, IC class A
Safety regulations	

\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 ANSI lumens is a measuring method of the American National Standards Institute IT7.215.

\*3 HDTV: 1125/60 interlaced HDTV studio standard system.

## 2-1 Multiscan projectors

### VPH-G70VRU<sup>\*1</sup> (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

- Designed specifically for use in Virtual Reality and Simulation applications
- Deep focussing area, high resolution lenses and extended geometry for use with curved and dome-style screens
- Multiscan capability: horizontal 15 to 110 kHz, vertical 38 to 150 Hz
- Accepts composite and S Video signals when an appropriate optional interface board is installed
- Incorporates newly developed 8-inch electromagnetic focus CRTs
- Incorporates a universal optical coupling
- High resolution of 700 TV lines (video)/1100 TV lines (HDTV<sup>\*2</sup>)/1700 × 1200 pixels (RGB measured at fH: 74 kHz, fV: 60 Hz)
- Wide RGB bandwidth of 120 MHz
- New hybrid HACC lens for superb, stable picture performance
- Precise registration with the Key/Pin balance mode and 25-point zone adjustment
- Input memory and Video memory available for facilitated set-up
- Independent brightness and color uniformity adjustments
- Incorporates the picture orbiting function
- Simplified operation for multi-projection applications such as ABL link and Index operation functions
- Optional internal line-doubler board available
- Video decoder circuit for enhanced video picture quality
- Various optional accessories available for system versatility
- Can be used with screens from 60 to 300 inches in size (viewable area, measured diagonally)
- Black cabinet suitable for Virtual Reality and Simulation installations

Supplied accessories: Remote Commander RM-PJ1000  
Remote Commander Cable (15 m)  
Adjusting Plate  
AA size (R6) Battery (3)  
AC Power Cord  
Operation Manual  
Installation Manual

Optional accessories: Interface Board IFB-12A/20<sup>\*1</sup>/21<sup>\*1</sup>/40/50/1000/1400  
Signal Interface Cable SIC-10/20A<sup>\*1</sup>/20C<sup>\*1</sup>/21<sup>\*1</sup>/22<sup>\*1</sup>  
M1<sup>\*1</sup>/M5<sup>\*1</sup>/M15<sup>\*1</sup>/M25<sup>\*1</sup>/M50<sup>\*1</sup>  
CCQ-BRS Cable CCQ-2BRS/5BRS/10BRS/25BRS/  
50BRS  
Signal Interface Switcher PC-1271<sup>\*1</sup>  
Extension Board EXB-DS10  
Interface Unit IFU-1271<sup>\*1</sup>  
Suspension Support PSS-10/70  
Remote Commander RM-PJM800<sup>\*1</sup>  
Remote Control Receiver RM-PJ10  
Mouse Receiver RM-PJ21<sup>\*1</sup>  
Signal Adaptor ADP-10  
(HD D-sub 15-pin to D-sub 9-pin for SIC cable)  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401  
Remote Control Cable RCC-5G/10G/30G  
(for RS-422A)  
100-inch Flat Screen VPS-100FH<sup>\*1</sup>  
120-inch Flat Screen VPS-120FH<sup>\*1</sup>

#### Specifications

##### Optical

Projection system: 3 picture tubes, 3 lenses, direct projection system  
Picture tube: 8-inch (phosphor size 6-inch) high luminance, optical doubled, electromagnetic focus tubes  
Projection lens: Double focus, F1.2/135 mm  
(color purity improved: C element of Red/Green)  
Screen coverage<sup>\*3</sup>: 60 to 300 inches (viewable area, measured diagonally) (factory preset to 120 inches)  
Acceptable screen radius:  
Flat to 2500 mm radius  
Acceptable throw angle: -2° to +30°  
Light output: 200 ANSI lumens<sup>\*4</sup> (fH: 110 kHz, fV: 60 Hz, 6500K)  
170 ANSI lumens (fH: 15 kHz, fV: 60 Hz, 6500K)  
Peak white: 1000 lm, All white: 290 lm  
Throwing distance: 60-inch 1668 mm (5 ft 5½ inches)  
70-inch 1921 mm (6 ft 3¾ inches)  
100-inch 2689 mm (8 ft 9¾ inches)  
120-inch 3200 mm (10 ft 5¾ inches)  
150-inch 3972 mm (13 ft ¾ inches)  
200-inch 5254 mm (17 ft 2²/₃ inches)  
250-inch 6539 mm (21 ft 5⁹/₁₆ inches)  
300-inch 7831 mm (25 ft 8⁹/₁₆ inches)

##### Signals

Color system: NTSC, PAL, SECAM, NTSC<sub>4.43</sub>, PAL-M  
(automatically selected)  
Resolution: 700 TV lines (video), 1100 TV lines (HDTV)  
1700 × 1200 pixels  
(RGB, measured at fH: 74 kHz, fV: 60 Hz)



Scanning frequency: Horizontal: 15 to 110 kHz  
Vertical: 38 to 150 Hz

RGB bandwidth: 120 MHz (-3 dB)

##### General

Power requirements: AC 120 V, 50/60 Hz  
Power consumption: 750 W, Standby 7 W  
Heat dissipation: 2559.4 BTU  
Operating temperature: 0 to 40 °C (32 to 104 °F)  
Operating humidity: 35 to 85%  
Storage temperature: -20 to 60 °C (-4 to 140 °F)  
Storage humidity: 10 to 90%  
Dimensions: 695 (W) × 358 (H) × 948 (D) mm  
(27³/₈ × 14¹/₄ × 37⁹/₁₆ inches)

Mass: Approx. 83 kg (183 lb)

##### Inputs/Outputs

###### Input A

Analog RGB/Component: BNC

R/Y: 0.7 Vp-p ±2 dB positive, 75 Ω terminated  
G/Y: 0.7 Vp-p ±2 dB positive, 75 Ω terminated  
G with sync: 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated  
B/B-Y: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

Sync/HD Composite sync:

0.6 to 8.0 Vp-p, high impedance, sync positive/negative  
Horizontal sync:

0.6 to 8.0 Vp-p, high impedance, sync positive/negative

VD:

Vertical sync: 0.6 to 8.0 Vp-p, high impedance, sync positive/negative

HDTV<sup>\*1</sup> (Y/Pb/Pr):

Y: 1.0 Vp-p ±2 dB, 75 Ω terminated  
Pb/Pr: Tri-sync: ±0.3 Vp-p, bi-sync: 0.3 Vp-p  
±0.35 Vp-p ±2 dB, 75 Ω

B/PR:

G with sync: 1.0 Vp-p ±2 dB, 75 Ω terminated  
Tri-sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p

B/R:

Input B: 0.7 Vp-p ±2 dB, 75 Ω terminated  
CONTROL S IN/ Open slot for optional IFB board

PLUG IN POWER:

Stereo mini jack 5.0 Vp-p,  
Plug in power DC 5 V, Max. output: 60 mA

CONTROL S OUT:

Stereo mini jack 5.0 Vp-p

REMOTE

RS-422A:

ABL Link

IN:

OUT:

TRIG:

D-sub 9-pin (female)

Mini jack

Mini jack

Mini jack

Power On: DC 12 V, output impedance 4.7 kΩ

Power Off: 0 V

UL 1950, cUL 950, DHHS, DNHW, FCC class A,

IC class A

\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 HDTV: 1125/60 interlaced HDTV studio standard system.

\*3 Throw angle: 15.2°, screen radius = 0 mm.

\*4 ANSI lumens is a measuring method of the American National Standards Institute ANSI IT7.215.

## 2-1 Multiscan projectors

### VPH-D50Q<sup>\*1</sup> (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

- Multiscan capability: horizontal 15 to 64 kHz, vertical 38 to 150 Hz
- Incorporates newly developed 7-inch static focus CRTs
- Incorporates a universal air coupling
- Remarkable light output of 160 ANSI lumens<sup>\*2</sup> (fH: 64 kHz, fV: 50 Hz, 6500 K)/130 ANSI lumens (fH: 15 kHz, fV: 60 Hz), Peak white: 800 lm
- High resolution of 700 TV lines (video)/1000 TV lines (HDTV<sup>\*3</sup>)/1280 × 1024 pixels (RGB in at fH: 64 kHz, fV: 60 Hz)
- Wide RGB bandwidth of 75 MHz
- Precise registration with the Key/Pin balance mode
- Input memory and Video memory available to facilitate set-up
- Video decoder circuit for enhanced video picture quality
- Incorporates the picture orbiting function
- Simplified operation for multi-projection applications such as ABL link and Index operation functions
- Optional internal line-doubler board available
- Various optional accessories available for system versatility
- Desk top mounted projection, ceiling mounted projection, floor mounted projection and rear projection capabilities
- Can be used with screens from 60 to 250 inches in size (viewable area, measured diagonally)

DISPLAY  
PRODUCTS

Supplied accessories: Remote Commander RM-PJ1000  
Remote Commander Cable (15 m)

Adjusting Plate

AA size (R6) Battery (3)

AC Power Cord

Operation Manual

Installation Manual

Optional accessories: Interface Board IFB-12A/20<sup>\*1</sup>/21<sup>\*1</sup>/40/50/1000/1200<sup>\*1</sup>/1301/1400

Signal Interface Cable SIC-10/20A<sup>\*1</sup>/20C<sup>\*1</sup>/21<sup>\*1</sup>/22<sup>\*1</sup>/M1<sup>\*1</sup>/M5<sup>\*1</sup>/M15<sup>\*1</sup>/M25<sup>\*1</sup>/M50<sup>\*1</sup>

CCQ-BRS Cable CCQ-2BRS/5BRS/10BRS/25BRS/50BRS

Signal Interface Switcher PC-1271<sup>\*1</sup>

Extension Board EXB-DS10

Interface Unit IFU-1271<sup>\*1</sup>

Suspension Support PSS-10/70

Remote Commander RM-PJM800<sup>\*1</sup>

Remote Control Receiver RM-PJ10

Mouse Receiver RM-PJ20<sup>\*1</sup>

Signal Adaptor ADP-10

(HD D-sub 15-pin to D-sub 9-pin for SIC cable)

Signal Adaptor ADP-20 (Macintosh to VGA)

Signal Cable SMF-400/401

Remote Control Cable RCC-5G/10G/30G

(for RS-422A)

100-inch Flat Screen VPS-100FH<sup>\*1</sup>

120-inch Flat Screen VPS-120FH<sup>\*1</sup>

#### Specifications

##### Optical

Projection system:

3 picture tubes, 3 lenses, direct projection system

Picture tube:

7-inch (phosphor size 5.5-inch) static focus CRT

Projection lens:

Double focus, F1.0/135 mm

Screen coverage:

60 to 250-inch measured diagonally, factory preset to 120-inch

Light output:

160 ANSI lumens<sup>\*2</sup> (fH: 64 kHz, fV: 50 Hz, 6500 K)

130 ANSI lumens (fH: 15 kHz, fV: 60 Hz, 6500 K)

Peak white: 800 lm, All white: 200 lm

Throwing distance:

60-inch 1902 mm (6ft 2<sup>7</sup>/<sub>32</sub> inches)

70-inch 2179 mm (7ft 1<sup>25</sup>/<sub>32</sub> inches)

100-inch 3016 mm (9ft 10<sup>11</sup>/<sub>32</sub> inches)

120-inch 3571 mm (11ft 8<sup>19</sup>/<sub>32</sub> inches)

150-inch 4424 mm (14ft 6<sup>3</sup>/<sub>16</sub> inches)

200-inch 5844 mm (19ft 2<sup>3</sup>/<sub>32</sub> inches)

250-inch 7257 mm (23ft 9<sup>23</sup>/<sub>32</sub> inches)

##### Signals

Color system:

NTSC, PAL, SECAM, NTSC<sub>4.43</sub>, PAL-M

Resolution:

700 TV lines (video)

1000 TV lines (HDTV)

1280 × 1024 pixels (RGB, measured at fH: 64 kHz, fV: 60 Hz)

Horizontal: 15 to 64 kHz

Vertical: 38 to 150 Hz

Scanning frequency:

75 MHz -3 dB

RGB bandwidth:

General

Power requirements:

AC 120 V, 50/60 Hz

Power consumption:

450 W, Standby 7 W

Heat dissipation:

1535.7 BTU



Operating temperature: 0 to 40 °C (32 to 104 °F)

Operating humidity: 35 to 85%

Storage temperature: -20 to 60 °C (-4 to 140 °F)

Storage humidity: 10 to 90%

Dimensions: 603 (W) × 345 (H) × 671 (D) mm

(23<sup>3</sup>/<sub>4</sub> × 13<sup>5</sup>/<sub>8</sub> × 26<sup>1</sup>/<sub>2</sub> inches)

Mass: Approx. 54 kg (119 lb 1 oz)

#### Inputs/Outputs

Video:

Loop-through BNC

1.0 Vp-p ±2 dB sync negative, 75 Ω

S Video:

BNC

1.0 Vp-p ±2 dB sync negative, 75 Ω

C IN:

BNC

Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω

0.3 Vp-p ±2 dB (PAL), 75 Ω

Y/C IN:

Loop-through mini DIN 4-pin

Y (luminance): 1.0 Vp-p ±2 dB sync negative, 75 Ω

C (chrominance): Burst 0.286 ±2 dB (NTSC), 75 Ω

0.3 ±2 dB (PAL), 75 Ω

Input A: BNC × 5

Analog RGB/Component:

R/R-Y: 0.7 Vp-p ±2 dB positive, 75 Ω

G: 0.7 Vp-p ±2 dB positive, 75 Ω,

G with sync/Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω

B/B-Y: 0.7 Vp-p ±2 dB positive, 75 Ω

Sync/HD:

Composite sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative

Horizontal sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative

VD:

Vertical sync: 0.6 to 8.0 Vp-p, high impedance, positive/negative

HDTV<sup>\*2</sup> (Y/Pb/Pr):

Y: 1.0 Vp-p ±2 dB, 75 Ω

Pb/Pr: Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p

±0.35 Vp-p ±2 dB, 75 Ω

HDTV<sup>\*2</sup>(GBR):

G with sync: 1.0 Vp-p ±2 dB, 75 Ω

Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p

0.7 Vp-p ±2 dB, 75 Ω

Input B:

Supplied with an IFB-40: 14-pin multi connector (input: male, output: female)

CONTROL S IN/ Stereo mini jack 5.0 Vp-p,

PLUG IN POWER: Plug in power DC 5 V, Max. output: 60 mA

CONTROL S OUT: Stereo mini jack 5.0 Vp-p

REMOTE

RS-422A:

D-sub 9-pin (female)

ABL Link

IN:

Stereo mini jack

OUT:

Stereo mini jack

TRIG:

Mini jack

Power On: DC 5 V, output impedance 4.7 kΩ

Power Off: 0 V

UL1950, CSA950, DHHS, DNHW, FCC (Class B),

IC (ClassB)

<sup>\*1</sup> Not available in some areas. For details, please contact your nearest Sony office.

<sup>\*2</sup> ANSI lumens is a measuring method of the American National Standards Institute IT7.215.

<sup>\*3</sup> HDTV: 1125/60 interlaced HDTV studio standard system.

## 2-1 Multiscan projectors

### VPH-D50HTU (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

• Multiscan capability: horizontal 15 to 64 kHz, vertical 38 to 150 Hz • Incorporates newly developed 7-inch static focus CRTs • Incorporates a universal air coupling • Remarkable light output of 160 ANSI lumens\*<sup>1</sup> (fH: 64 kHz, fV: 50 Hz, 6500 K)/130 ANSI lumens (fH: 15 kHz, fV: 60 Hz), Peak white: 800 lm • High resolution of 700 TV lines (video)/1000 TV lines (HDTV\*)/1280 × 1024 pixels (RGB in at fH: 64 kHz, fV: 60 Hz) • Wide RGB bandwidth of 75 MHz • Precise registration with the Key/Pin balance mode • Input memory and Video memory available for facilitated set-up • Video decoder circuit for enhanced video picture quality • Incorporates the picture orbiting function • Simplified operation for multi-projection applications such as ABL link and Index operation functions • Internal line-doubler board included as a standard feature • Various optional accessories available for system versatility • Table-top projection, ceiling mounted projection, floor mounted projection and rear projection capabilities • Can be used with screens from 60 to 250 inches in size (viewable area, measured diagonally)

Supplied accessories: Remote Commander RM-PJ1001/PJD50

Remote Commander Cable (15 m)

Adjusting Plate

AA size (R6) Battery (3)

Button Battery CR2025

AC Power Cord

Operation Manual

Installation Manual

Optional accessories: Signal Interface Cable SIC-10

Interface Unit IFU-1271\*<sup>3</sup>

Suspension Support PSS-10/70

Remote Commander RM-PJM800\*<sup>1</sup>

Remote Control Receiver RM-PJ10

Mouse Receiver RM-PJ21\*<sup>3</sup>

Signal Cable SMF-400

Remote Control Cable RCC-5G/10G/30G  
(for RS-422A)

100-inch Flat Screen VPS-100FH\*<sup>3</sup>

120-inch Flat Screen VPS-120FH\*<sup>3</sup>

### Specifications

#### Optical

Projection system:

3 picture tubes, 3 lenses, direct projection system

Picture tube:

7-inch (phosphor size 5.5-inch) high luminance air coupled (Color corrected: Red/Green), static focus tubes

Projection lens:

Double focus, F1.0/135 mm

Screen coverage:

60 to 250 inches measured diagonally  
(factory preset to 100 inches)

Light output:

160 ANSI lumens\*<sup>1</sup> (fH: 64 kHz, fV: 50 Hz, 6500 K)  
130 ANSI lumens (fH: 15 kHz, fV: 60 Hz, 6500 K)

Peak white: 800 lm, All white: 200 lm

Throwing distance:  
(in 4:3 mode)

60-inch 1902 mm (6 ft 2 $\frac{1}{8}$  inches)

70-inch 2179 mm (7 ft 1 $\frac{5}{8}$  inches)

100-inch 3016 mm (9 ft 10 $\frac{1}{4}$  inches)

120-inch 3571 mm (11 ft 8 $\frac{1}{32}$  inches)

150-inch 4424 mm (14 ft 6 $\frac{15}{16}$  inches)

200-inch 5844 mm (19 ft 2 $\frac{3}{32}$  inches)

250-inch 7257 mm (23 ft 9 $\frac{29}{32}$  inches)

#### Signals

Color system:

NTSC, PAL, SECAM, NTSC<sub>4.43</sub>, PAL-M

Resolution:

700 TV lines (video)

1000 TV lines (HDTV)

1280 × 1024 pixels (RGB, measured at  
fH: 64 kHz, fV: 60 Hz)

Scanning frequency:

Horizontal: 15 to 64 kHz

Vertical: 38 to 150 Hz

RGB bandwidth:

75 MHz (-3 dB)

#### General

Power requirements: AC 120 V, 50/60 Hz

Power consumption: 450 W, Standby 7 W

Heat dissipation: 1535.7 BTU

Operating temperature: 0 to 40 °C (32 to 104 °F)

Operating humidity: 35 to 85%

Storage temperature: -20 to 60 °C (-4 to 140 °F)

Storage humidity: 10 to 90%



Dimensions:	603 (W) × 345 (H) × 671 (D) mm (23 $\frac{3}{4}$ × 13 $\frac{1}{8}$ × 26 $\frac{1}{2}$ inches)
Mass:	Approx. 54 kg (119 lb 1 oz)
<b>Inputs/Outputs</b>	
Video	
Composite:	Loop-through BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination
Y IN:	BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated
C IN:	BNC, Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω terminated or 0.3 Vp-p ±2 dB (PAL), 75 Ω terminated
Y/C IN:	Loop-through Mini DIN 4-pin
Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination
C:	Burst 0.286 ±2 dB (NTSC), 75 Ω automatic termination or 0.3 ±2 dB (PAL), 75 Ω automatic termination
Input A/B	
Analog RGB/Component:	BNC
R/R-Y:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
G/Y:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
G with sync:	1.0 Vp-p ±2 dB sync negative, 75 Ω terminated
B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω terminated
Sync/HD	Composite sync: 0.6 to 8.0 Vp-p, high impedance, sync positive/negative Horizontal sync: 0.6 to 8.0 Vp-p, high impedance, sync positive/negative
VD	
Vertical sync:	0.6 to 8.0 V p-p, high impedance, sync positive/negative
HDTV* <sup>2</sup> (Y/P <sub>B</sub> /P <sub>R</sub> ):	BNC
Y:	1.0 Vp-p ±2 dB, 75 Ω terminated
P <sub>B</sub> /P <sub>R</sub> :	Tri-sync: ±0.3 Vp-p, bi-sync: 0.3 Vp-p ±0.35 Vp-p ±2 dB, 75 Ω
HDTV* <sup>2</sup> (GBR):	BNC
G with sync:	1.0 Vp-p ±2 dB, 75 Ω terminated
B/R:	Tri-sync: ±0.3 Vp-p, bi-sync: 0.3 Vp-p ±0.7 Vp-p ±2 dB, 75 Ω terminated
Video (YC)* <sup>4</sup>	
Y:	BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated
C:	BNC, Burst 0.286 ±2 dB (NTSC), 75 Ω terminated or 0.3 ±2 dB (PAL), 75 Ω terminated
Video (Composite)* <sup>4</sup>	
VIDEO:	1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination
CONTROL S IN/PLUG IN POWER:	Stereo mini jack 5.0 Vp-p, Plug in power DC 5 V, Max. output: 60 mA
CONTROL S OUT/REMOTE	Stereo mini jack 5.0 Vp-p
RS-422A:	D-sub 9-pin (female)
ABL Link	
IN:	Mini jack
OUT:	Mini jack
TRIG:	Mini jack Power On: DC 12 V, output impedance 4.7 kΩ Power Off: 0 V
<b>Safety regulations</b>	
UL 1950, cUL 950, DHHS, DNHW, FCC class B, IC class B	

\*1 ANSI lumens is a measuring method of the American National Standards Institute ANSI IT7.215.

\*2 HDTV: 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

\*3 Not available in some areas. For details, please contact your nearest Sony office.

\*4 Input B only.

## 2-2 Video projector

**VPH-V20U<sup>\*1</sup>** (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

- Remarkable light output of 700 lumens (peak white)
- Accepts Component (Y/R-Y/B-Y or RGB), Y/C and Composite Video signals
- A high resolution of 700 TV lines (composite video)/1000 TV lines (RGB)
- Supplied remote control unit RM-PJV20 controls all projector functions
- Desk top mounted projection, ceiling mounted projection, floor mounted projection and rear projection capabilities
- Can be used with screens from 70 to 250 inches in size (viewable area, measured diagonally)

Supplied accessories: Remote Commander RM-PJV20  
AA size Battery (2)  
Spacer (0.2 mm) for 254 cm (70 to 100 inches )  
rear projection  
Spacer (0.8 mm) for 254 cm (70 to 100 inches )  
rear projection  
Operation Manual  
Installation Manual

Optional accessories: Signal Interface Cable SIC-10  
Interface Unit IFU-1271<sup>\*1</sup>  
Suspension Support PSS-10/722  
Remote Control Receiver RM-PJ10  
100-inch Flat Screen VPS-100FH<sup>\*1</sup>  
120-inch Flat Screen VPS-120FH<sup>\*1</sup>  
70-inch Rear Screen VPS-702R<sup>\*1</sup>



### Specifications

#### Optical

Projection system: 3 picture tubes, 3 lenses, direct projection system  
CRT: 7-inch (Phosphor size: 5.5-inch) liquid cooled high brightness monochrome tubes  
Projection lens: High performance hybrid multi-coated lens  
F1.0/130 mm  
Screen: 70-inch (177.8 cm) to 250-inch (635 cm) measured diagonally (Factory preset: 100-inch (254 cm))  
Light output: 100 ANSI lumens<sup>\*2</sup> (15 kHz, 60 Hz, 6500 K)  
Peak white: 700 lm, All white: 140 lm  
Throwing distance: 100-inch (254 cm): 3301 mm (Approx. 11 ft)  
200-inch (508 cm): 6417 mm (Approx. 21 ft)

**Signals**  
Color system: NTSC, PAL, SECAM, NTSC<sub>4,43</sub><sup>\*3</sup> automatically selected

Resolution: 700 TV lines (Composite video input)  
1000 TV lines (RGB input)

Test signals: Cross hair

#### General

Power requirements: AC 220 to 240 V, 50/60 Hz  
Power consumption: 210 W  
Operating temperature: 0 to 40 °C (14 to 104 °F)  
Operating humidity: 35 to 85 %  
Storage temperature: -20 to 60 °C (-4 to 140 °F)  
Storage humidity: 10 to 90 %  
Dimensions: 532 (W) x 288 (H) x 597 (D) mm  
Mass: Approx. 30 kg (66 lb 2 oz)  
Heat dispersion: 716.6 BTU

#### Inputs/Outputs

VIDEO IN:  
Video<sup>\*4</sup>: BNC 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
S video<sup>\*4</sup>: Mini DIN 4-pin  
Y (luminance): 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω  
or 0.3 Vp-p ±2 dB (PAL), 75 Ω

VIDEO OUT:  
Video: BNC 1.0 Vp-p ±2 dB, 75 Ω

INPUT A:  
Analog RGB/Component:  
BNC  
R/R-Y: 0.7 Vp-p ±2 dB, positive, 75 Ω  
G: 0.7 Vp-p ±2 dB, positive, 75 Ω  
G with Sync/Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
B/B-Y: 0.7 Vp-p ±2 dB, positive, 75 Ω  
SYNC/HD:  
Composite sync: 0.6 to 8.0 Vp-p, high impedance negative  
Horizontal sync: 0.6 to 8.0 Vp-p, high impedance negative  
VD:  
Vertical sync: 0.6 to 8.0 Vp-p, high impedance negative  
Control S: Loop-through Stereo mini jack

**Safety Regulations**  
EN60 065 (TÜV), CE, C-Tick, PTB

<sup>\*1</sup> Not available in some areas. For details, please contact your nearest Sony office.

<sup>\*2</sup> ANSI lumens is a measuring method of the American National Standards Institute ANSI IT7.215.

<sup>\*3</sup> The NTSC<sub>4,43</sub> system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz.

<sup>\*4</sup> S VIDEO input has priority over Composite video input.

## 2-3 LCD projectors

### VPL-FE100U (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

#### LCD Data Projector

•SXGA (1280 × 1024) resolution LCD (Liquid Crystal Display)-based data projector •Three 1.8-inch LCD panels for a total of 3,932,160 pixels •Four 120 W UHP lamps •Outstanding light output of 3500 ANSI lumens\*<sup>1</sup> •Excellent uniformity assured with 3D Digital gamma correction •Exclusive Sony Digital Reality Creation generates video pictures with effectively four times the resolution of a conventional video signal •Multiscan capability with a built-in scan converter: fH: 15 to 100 kHz, fV: 40 to 120 Hz •Power zoom, power focus and picture shift functions for installation flexibility •Graphical on-screen menus with a choice of seven languages for adjustment/operation •Supplied remote control unit RM-PJ1001 controls all the projector functions •Wide range of optional lenses available •Can be used with screens from 40 to 500 inches in size (viewable area, measured diagonally) •Power saving mode available

Supplied accessories: Remote Commander RM-PJ1001  
Remote Commander Cable (15 m)  
AA size (R6) Battery (3)  
AC Power Cord  
PJ COM Terminator  
Lens Ring  
Operation Manual  
Installation Manual

Optional accessories: Quad Projector Lamp (for replacement) LMP-Q120  
Projector Lamp (for replacement) LMP-S120  
1.3 times zoom Standard Focus Lens VPLL-Z3020  
1.3 times zoom Standard Focus Lens VPLL-Z2019  
1.6 times zoom Long Focus Lens VPLL-Z2025  
1.5 times zoom Long Focus Lens VPLL-Z2039  
Fixed Long Focus Lens VPLL-3050  
Fixed Long Focus Lens VPLL-2075  
Fixed Short Focus Lens VPLL-2014  
Fixed Short Focus Lens VPLL-2009  
Suspension Support PSS-10/2000  
Stack Stand SU-PJ2000  
Interface Board IFB-12A/21/50/1000  
Signal Interface Cable SIC-20A<sup>2</sup>/20C<sup>2</sup>/22<sup>2</sup><sup>\*</sup>  
Signal Interface Switcher PC-3000<sup>2</sup>  
Remote Commander RM-PJ3000S<sup>3</sup>  
Remote Control Receiver RM-PJ10  
Signal Adaptor ADP-10  
(HD D-sub 15-pin to D-sub 9-pin for SIC cable)  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401  
Remote Control Cable RCC-5G/10G/30G  
(for RS-422A)  
100-inch Flat Screen VPS-100FH<sup>2</sup>

#### Specifications

##### Optical

Projection system: 3 LCD panels, 1 lens projection  
LCD panel: 1.8-inch TFT LCD panel, 3,932,160 pixels (1,310,720 pixels x 3)  
Lamp: 120 W UHP lamp (4)  
Light output: 3500 ANSI lumens\*<sup>1</sup>  
Projection picture size: 40 to 500 inches (viewable area, measured diagonally)

##### General

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M (automatically selected)  
Resolution: Video: 600 TV lines  
RGB: 1280 × 1024 pixels  
Scanning frequency: fH: 15 to 100 kHz  
fV: 40 to 120 Hz  
Display area: >6.4 μsec  
Speaker: 5 W stereo  
Power requirements: AC 220 to 240 V, 50/60 Hz  
Power consumption: Max. 770 W (approx.), Standby 20 W  
Heat dissipation: 2628 BTU  
Dimensions: 562 (W) × 237 (H) × 649 (D) mm (22 1/4 × 9 3/8 × 25 1/8 inches)  
Mass: Approx. 34.5 kg (75 lb 14 oz)  
Operating temperature: 0 to 40 °C (32 to 104 °F)  
Operating humidity: 35 to 85% (no condensation)  
Storage temperature: -20 to 60 °C (-4 to 140 °F)  
Storage humidity: 10 to 90%

##### Input/Output

VIDEO IN  
Composite video: Loop-through BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω  
S VIDEO IN  
Y IN: BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω  
C IN: Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or  
BNC 0.3 Vp-p ±2 dB (PAL), 75 Ω  
Y/C IN:  
Y (luminance): Loop-through Mini DIN 4-pin  
C (chrominance): 1.0 Vp-p ±2 dB sync negative, 75 Ω  
Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or  
0.3 Vp-p ±2 dB (PAL), 75 Ω  
Phono, stereo, 500 mV rms, impedance more than 47 kΩ  
AUDIO IN:



DISPLAY  
PRODUCTS

##### INPUT A

Analog RGB/Component:

BNC × 5  
R/R-Y: 0.7 Vp-p ±2 dB positive, 75 Ω  
G: 0.7 Vp-p ±2 dB positive, 75 Ω  
G with sync/Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω  
B/B-Y: 0.7 Vp-p ±2 dB positive, 75 Ω

SYNC/HD  
Composite sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative  
Horizontal sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative

##### VD

Vertical sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative  
HDTV<sup>4</sup> (Y<sub>P</sub>/P<sub>R</sub>): BNC

Y: 1.0 Vp-p ±2 dB positive, 75 Ω,  
Tri-level sync: ±0.3 Vp-p

Bi-level sync: 0.3 Vp-p  
±0.35 Vp-p ±2 dB positive, 75 Ω

##### P<sub>B</sub>/P<sub>R</sub>:

HDTV<sup>4</sup> (GBR): BNC  
G with sync: 1.0 Vp-p ±2 dB, 75 Ω,  
Tri-level sync: ±0.3 Vp-p

Bi-level sync: 0.3 Vp-p

B/R: 0.7 Vp-p ±2 dB positive, 75 Ω

Audio IN: Phono, stereo, 500 mV rms, impedance more than 47 kΩ  
AUDIO OUT: Phono, Max. 1 V rms when input is 500 mV rms,  
impedance more than 1 kΩ

##### INPUT B/C:

CONTROL S IN/ PLUG IN POWER: Open for optional IFB board  
CONTROL S OUT: Stereo mini jack 5.0 Vp-p,  
REMOTE RS-232C/RS-422A<sup>5</sup>: Plug in power DC 5 V, Max. output: 60 mA  
PJ COM<sup>6</sup>: Stereo mini jack 5.0 Vp-p

##### TRIG:

Mini jack  
Power ON: 12 V, output impedance 4.7 kΩ  
Power OFF: 0 V

##### Safety Regulations

EN 60 950 (TÜV), CE, C-tick

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 Not available in some areas. For details, please contact your nearest Sony office.

\*3 Laser Type: Class II

Wavelength: 645 nm

Output: 1 mW

\*4 The VPL-FE100U supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

\*5 RS-232C/RS-422A selectable.

\*6 PJ COM complies with RS-485.

## 2-3 LCD projectors

### VPL-FX200U (NTSC/PAL/SECAM/NTSC4.43/PAL-M)

#### LCD Data Projector

- XGA (1024 × 768) resolution LCD (Liquid Crystal Display)-based data projector
- Three LCD panels for a total of 2,359,296 pixels
- Four 120 W UHP lamps
- Outstanding light output of 3100 ANSI lumens\*<sup>1</sup>
- Excellent uniformity assured with 3D Digital gamma correction
- Exclusive Sony Digital Reality Creation generates video pictures with effectively four times the resolution of a conventional video signal
- Multiscan capability with a built-in scan converter: fH: 15 to 94 kHz, fV: 50 to 120 Hz
- Power zoom, power focus and picture shift functions for installation flexibility
- Graphical on-screen menus with a choice of seven languages for adjustment/operation
- Supplied remote control RM-PJ1001 controls all the projector functions
- Six optional lenses available
- Can be used with screens from 40 to 500 inches in size (viewable area, measured diagonally)
- Power saving mode available

Supplied accessories:

- Remote Commander RM-PJ1001
- Remote Commander Cable (15 m)
- Size AA (R6) Battery (3)
- AC Power Cord
- PJ COM Terminator
- Lens Ring
- Operation Manual
- Installation Manual

Optional accessories:

- Quad Projector Lamp (for replacement) LMP-Q120
- Projector Lamp (for replacement) LMP-S120
- 1.3 times zoom Standard Focus Lens VPLL-Z2019
- 1.6 times zoom Long Focus Lens VPLL-Z2025
- 1.5 times zoom Long Focus Lens VPLL-Z2039
- Fixed Long Focus Lens VPLL-2075
- Fixed Short Focus Lens VPLL-2014
- Fixed Short Focus Lens VPLL-2009
- Suspension Support PSS-10/2000
- Stack Stand SU-PJ2000
- Interface Board IFB-12A/21/50/1000
- Signal Interface Cable SIC-20A\*/20C\*/22\*
- Signal Interface Switcher PC-3000\*
- Remote Commander RM-PJ3000S\*
- Remote Control Receiver RM-PJ10
- Signal Adaptor ADP-10  
(HD D-sub 15-pin to D-sub 9-pin for SIC cable)
- Signal Adaptor ADP-20 (Macintosh to VGA)
- Signal Cable SMF-400/401
- Remote Control Cable RCC-5G/10G/30G  
(for RS-422A)
- 100-inch Flat Screen VPS-100FH\*

#### Specifications

##### Optical

- Projection system: 3 LCD panels, 1 lens projection
- LCD panel: 1.8-inch TFT LCD panel, 2,359,296 pixels (786,432 pixels × 3)
- Lamp: 120 W UHP lamp (4)
- Light output: 3100 ANSI lumens\*<sup>1</sup>
- Projection picture size: 40 to 500 inches (viewable area, measured diagonally)
- Optional projection lenses:

	Throwing distance (unit: mm)		
	40-inch	100-inch	300-inch
VPLL-Z2019 (1.3 times zoom lens)	1,490 - 1,890	3,870 - 4,880	11,820 - 14,840
VPLL-Z2025 (1.6 times zoom lens)	N.A.	5,020 - 7,750	15,430 - 23,580
VPLL-Z2039 (1.5 times zoom lens)	N.A.	7,990 - 11,480	24,300 - 34,760
VPLL-2075 (fixed long focus lens)	N.A.	15,000	44,660
VPLL-2014 (fixed short focus lens)	1,030	2,760	8,520
VPLL-2009 (fixed short focus lens)	640	1,800	5,670

##### General

- Color system: NTSC/PAL/SECAM/NTSC4.43/PAL-M  
(automatically selected)
- Resolution: Video: 600 TV lines  
RGB: 1024 × 768 pixels
- Scanning frequency: fH: 15 to 94 kHz  
fV: 50 to 120 Hz  
Display area: >6.4 µsec
- Speaker: 5 W stereo
- Power requirements: AC 220 to 240 V, 50/60 Hz
- Power consumption: Max. 770 W (approx.), Standby 20 W
- Heat dissipation: 2628 BTU
- Dimensions: 562 (W) × 237 (H) × 649 (D) mm (22 1/4 × 9 3/8 × 25 5/8 inches)
- Mass: Approx. 34.5 kg (75 lb 14 oz)
- Operating temperature: 0 to 40 °C (32 to 104 °F)
- Operating humidity: 35 to 85% (no condensation)
- Storage temperature: -20 to 60 °C (-4 to 140 °F)
- Storage humidity: 10 to 90%
- Input/Output**
- VIDEO IN**
- Composite video: Loop-through BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω
- S VIDEO IN
- Y IN: BNC 1.0 Vp-p ±2 dB sync negative, 75 Ω
- C IN: Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or BNC 0.3 Vp-p ±2 dB (PAL), 75 Ω
- Y/C IN:  
Y (luminance): Loop-through Mini DIN 4-pin  
1.0 Vp-p ±2 dB sync negative, 75 Ω



C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω

AUDIO IN: Phono, stereo, 500 mV rms, impedance more than 47 kΩ

INPUT A

Analog RGB/Component:

BNC × 5

R/R-Y: 0.7 Vp-p ±2 dB positive, 75 Ω

G: 0.7 Vp-p ±2 dB positive, 75 Ω

G with sync/Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω

B/B-Y: 0.7 Vp-p ±2 dB positive, 75 Ω

SYNC/HD

Composite sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative

Horizontal sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative

VD

Vertical sync: 0.6 to 8.0 Vp-p high impedance, sync positive/negative

HDTV\*4 (Y/Pb/Pr): BNC

Y: 1.0 Vp-p ±2 dB positive, 75 Ω,

Tri-level sync: ±0.3 Vp-p

Bi-level sync: 0.3 Vp-p

±0.35 Vp-p ±2 dB positive, 75 Ω

Pb/Pr:

HDTV\*4 (GBR): BNC

G with sync: 1.0 Vp-p ±2 dB, 75 Ω,

Tri-level sync: ±0.3 Vp-p

Bi-level sync: 0.3 Vp-p

±0.35 Vp-p ±2 dB positive, 75 Ω

B/R:

Audio IN:

AUDIO OUT: Phono, stereo, 500 mV rms, impedance more than 47 kΩ

AUDIO OUT:

INPUT B/C:

CONTROL S IN/ Stereo mini jack 5.0 Vp-p,

PLUG IN POWER: Plug in power DC 5 V, Max. output: 60 mA

CONTROL S OUT: Stereo mini jack 5.0 Vp-p

REMOTE

RS-232C/RS-422A\*5: D-sub 9-pin (female)

PJ COM\*6: D-sub 9-pin (2) (female)

TRIG: Mini jack

Power ON: 12 V, output impedance 4.7 kΩ

Power OFF: 0 V

EN 60 950 (TÜV), CE, C-tick

**Safety Regulations**

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 Not available in some areas. For details, please contact your nearest Sony office.

\*3 Laser Type: Class II

Wavelength: 645 nm

Output: 1 mW

\*4 The VPL-FX200U supports 1125/60/2:1 and 1125/59.94/2:1 (SMPTE-240M/274M) HDTV systems.

\*5 RS-232C/RS-422A selectable.

\*6 PJ COM complies with RS-485.

## 2-3 LCD projectors

### VPL-PX30 (NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N) LCD Data Projector

- XGA (1024 × 768) resolution LCD (Liquid Crystal Display)-based portable presentation projector
- Three 1.3-inch TFT LCD panels for a total of 2,359,296 pixels
- 200 W UHP lamp incorporated (LOW power mode selectable: 150 W)
- Brightness of 2400 ANSI lumens<sup>\*1</sup>
- Advanced technologies including 3D Gamma Correction, RGB Enhancer and Digital Keystone for outstanding picture quality
- Handles VGA, SVGA, XGA, SXGA<sup>\*2</sup> with a horizontal frequency of 15 to 91 kHz, composite video, Y/C video, component video and DTV<sup>\*3</sup> signals
- Wide range of input terminals (5 BNC, Monitor out, RS-232C, Digital RGB DFP 20-pin)
- USB hub function with PROJECTOR STATION software, Advanced APA (Auto Pixel Alignment) and Digital Zoom for enhanced presentations
- Lightweight, compact body
- Seven-language on-screen display
- Remote control unit with laser pointer and mouse control
- Desktop, ceiling and rear projection capabilities
- Can be used with screens from 40 to 300 inches in size (viewable area, measured diagonally)
- Built-in three-speaker stereo

**Supplied accessories:** Remote Commander RM-PJM610, Signal Cable SMF-410, Mouse Cable SIC-S21/S22, Audio Visual Cable (1.5 m), USB Cable (2 m), USB Application Software PROJECTOR STATION, AA size Battery (2), Lens Cap, Strap for Remote Commander, Air Filter, Operation Manual, Quick Reference Sheet, Installation Manual

**Optional accessories:** Projector Lamp (for replacement) LMP-P200  
1.3 times zoom Short Focus Lens VPLL-ZM31  
1.5 times zoom Long Focus Lens VPLL-ZM101  
Fixed Short Focus Lens VPLL-FM21  
Carrying Case VLC-600  
Suspension Support PSS-610  
Mouse Cables SIC-S20/S21/S22  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401/410/D102/D110  
50-inch Portable Screen VPS-50C<sup>\*4</sup>

#### Specifications

##### Optical

Projection system: 3 LCD panels, 1 lens projection system  
LCD panel: 1.3-inch p-Si TFT LCD panel, 2,359,296 pixels (786,432 pixels × 3) with Micro Lens Array  
Projection lens: Approx. 1.3 times zoom lens, F1.7 to 2.0, f36.7 to 47.8 mm  
Lamp: 200 W UHP Lamp  
Screen coverage: 40 to 300 inches (viewable area, measured diagonally)  
Light output: 2400 ANSI lumens<sup>1</sup>  
Throwing distance:  
40-inch: 1490 to 1820 mm (58½ to 71¾ inches)  
60-inch: 2280 to 2780 mm (89½ to 109½ inches)  
80-inch: 3060 to 3740 mm (120½ to 147¼ inches)  
100-inch: 3850 to 4700 mm (151½ to 185⅓ inches)  
120-inch: 4630 to 5660 mm (182¾ to 227⅔ inches)  
150-inch: 5810 to 7100 mm (228½ to 279¾ inches)  
200-inch: 7770 to 9500 mm (306 to 374⅓ inches)  
300-inch: 11700 to 14300 mm (460¾ to 563 inches)

##### Signals

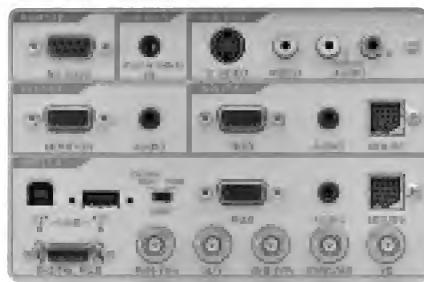
Color system: NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N (automatically/manually selected)  
Resolution: Video: 750 TV lines, RGB: 1024 × 768 pixels  
Acceptable signals: RGB (fH: 15 to 91 kHz, fV: 43 to 85 Hz), 15 kHz component 50/60 Hz system, Progressive component 60 Hz system, DTV (480/60P, 575/50P, 1080/50I, 720/60P, 720/50P), Composite video, Y/C video

##### General

Cabinet color: Silky Silver / Turquoise Blue  
Speaker: Max. 5 W Wide frequency range 3 speakers  
Woofer: 65 mm (2½ inches) diameter, Max. 3 W  
Tweeter: 45 mm (1¾ inches) diameter, Max. 1 W × 2 (Stereo)  
Power requirements: 100 to 240 V, 50/60 Hz  
Power consumption: Max. 290 W, Standby 5 W, Power saving mode 50 W  
Operating temperature: 0 to 40 °C (32 to 104 °F)  
Operating humidity: 35 to 85%  
Dimensions: 339 (W) × 142 (H) × 335 (D) mm (13⅓ × 5⅝ × 13⅓ inches)  
Mass: Approx. 7.2 kg (15 lb 14 oz)  
Heat dissipation: 989.6 BTU  
Fan noise: Less than 34 dB (when lamp mode set to LOW: 30 dB)

##### Input/Output

**VIDEO**  
Composite: Phono type, 1.0 Vp-p ±2 dB sync negative, 75 Ω  
Y/C IN: Mini DIN 4-pin  
Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω  
C: Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω  
**INPUT A:** HD D-sub 15-pin (female)/5 BNC (female)/Digital Interface Switched  
Analog RGB: HD D-sub 15-pin (female)  
R: 0.7 Vp-p ±2 dB positive, 75 Ω  
G: 0.7 Vp-p ±2 dB positive, 75 Ω  
B: 0.7 Vp-p ±2 dB sync negative, 75 Ω



DISPLAY  
PRODUCTS

B:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD	
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
VD	
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Analog RGB/Component:	5 BNC (female)
R/R-Y/Pr:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
B/Y/Pb:	1.0 Vp-p ±2 dB sync negative, 75 Ω
SYNC/HD	0.7 Vp-p ±2 dB positive, 75 Ω
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
DIGITAL RGB:	DFP 20 pin (TMDS)
USB HUB:	Up (B type: female) x 1, Down (A type: female) x 1
MOUSE IN:	Square 13-pin (female)
AUDIO IN:	Stereo mini jack, 500 mV rms, impedance more than 47 kΩ
INPUT B	
Analog RGB:	HD D-sub 15-pin (female)
R:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
B:	1.0 Vp-p ±2 dB sync negative, 75 Ω
SYNC/HD	0.7 Vp-p ±2 dB positive, 75 Ω
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
MOUSE IN:	Square 13-pin (female)
AUDIO IN:	Stereo mini jack, 500 mV rms, impedance more than 47 kΩ
OUTPUT	
MONITOR OUT <sup>*5</sup> :	HD D-sub 15-pin (female)
R/R-Y, G/Y, B/B-Y:	Gain Unity, 75 Ω
SYNC/HD, VD:	4.0 Vp-p (open), 1.0 Vp-p (75 Ω)
AUDIO OUT:	Stereo mini jack, Max. 1 V rms, when the input signal is 500 mV rms, impedance less than 5 kΩ
(Variable out)	
REMOTE	D-sub 9-pin (female)
RS-232C:	Stereo mini jack
CONTROL S IN/	5.0 Vp-p, plug in power, DC 5 V
PLUG IN POWER:	UL1950, CSA No.950, DHHS (Laser), FCC Class A, IC Class A, EN 60 950 (Nemko), CE, EN 60 825-1 (Laser), C-Tick, CCIB, VCCI class B, JEIDA (Laser)
Safety regulations	
Laser beam	Class II
Laser type:	645 nm
Wavelength:	1 mW
Output:	

<sup>\*1</sup> ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

<sup>\*2</sup> Compressed SXGA signal is reproduced while maintaining the 5:4 aspect ratio.

<sup>\*3</sup> The VPL-PX30 supports 480/60P, 575/50P, 1080/50I, 720/60P, and 720/50P DTV signals.

<sup>\*4</sup> Not available in some areas. For details, please contact your nearest Sony office.

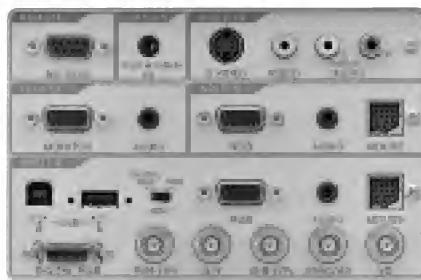
<sup>\*5</sup> DIGITAL RGB signal is not output from the MONITOR OUT terminal.

## 2-3 LCD projectors

### VPL-PX20 (NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N)

#### LCD Data Projector

- XGA (1024 × 768) resolution LCD (Liquid Crystal Display)-based portable presentation projector
- Three TFT 1.3-inch LCD panels for a total of 2,359,296 pixels
- 200 W UHP lamp incorporated (LOW power mode selectable: 150 W)
- Brightness of 1400 ANSI lumens<sup>\*1</sup>
- Advanced technologies including 3D Gamma Correction, RGB Enhancer and Digital Keystone for outstanding picture quality
- Handles VGA, SVGA, XGA, SXGA<sup>\*2</sup> with a horizontal frequency of 15 to 91 kHz, composite video, Y/C video, component video and DTV<sup>\*3</sup> signals
- Wide range of input terminals (5 BNC, Monitor out, RS-232C, Digital RGB DFP 20-pin)
- USB hub function with PROJECTOR STATION software, Advanced APA (Auto Pixel Alignment) and Digital Zoom for enhanced presentations
- Lightweight, compact body
- Seven-language on-screen display
- Remote control unit with laser pointer and mouse control
- Desktop, ceiling and rear projection capabilities
- Can be used with screens from 40 to 300 inches in size (view area, measured diagonally)
- Built-in three-speaker stereo



Supplied accessories:	Remote Commander RM-PJM610, Signal Cable SMF-410, Mouse Cable SIC-S21/S22, Audio Visual Cable (1.5 m), USB Cable (2 m), USB Application Software PROJECTOR STATION, AA size Battery (2), Lens Cap, Strap for Remote Commander, Air Filter, Operation Manual, Quick Reference Sheet, Installation Manual
Optional accessories:	Projector Lamp (for replacement) LMP-P200 1.3 times zoom Short Focus Lens VPLL-ZM31 1.5 times zoom Long Focus Lens VPLL-ZM101 Fixed Short Focus Lens VPLL-FM21 Carrying Case VLC-600 Suspension Support PSS-610 Mouse Cables SIC-S20/S21/S22 Signal Adaptor ADP-20 (Macintosh to VGA) Signal Cable SMF-400/401/410/D102/D110 50-inch Portable Screen VPS-50C <sup>*4</sup>

#### Specifications

##### Optical

Projection system:	3 LCD panels, 1 lens projection system																
LCD panel:	1.3-inch p-Si TFT LCD panel 2,359,296 pixels (786,432 pixels × 3)																
Projection lens:	Approx. 1.3 times zoom lens, F1.7 to 2.0, f36.7 to 47.8 mm																
Lamp:	200 W UHP Lamp																
Screen coverage:	40 to 300 inches (viewable area, measured diagonally)																
Light output:	1400 ANSI lumens <sup>*2</sup>																
Throwing distance:	<table border="0"> <tr> <td>40-inch:</td><td>1490 to 1820 mm (58½ to 71¼ inches)</td></tr> <tr> <td>60-inch:</td><td>2280 to 2780 mm (89½ to 109½ inches)</td></tr> <tr> <td>80-inch:</td><td>3060 to 3740 mm (120½ to 147¼ inches)</td></tr> <tr> <td>100-inch:</td><td>3850 to 4700 mm (151½ to 185½ inches)</td></tr> <tr> <td>120-inch:</td><td>4630 to 5660 mm (182½ to 227½ inches)</td></tr> <tr> <td>150-inch:</td><td>5810 to 7100 mm (228½ to 279½ inches)</td></tr> <tr> <td>200-inch:</td><td>7770 to 9500 mm (306 to 374½ inches)</td></tr> <tr> <td>300-inch:</td><td>11700 to 14300 mm (460½ to 563 inches)</td></tr> </table>	40-inch:	1490 to 1820 mm (58½ to 71¼ inches)	60-inch:	2280 to 2780 mm (89½ to 109½ inches)	80-inch:	3060 to 3740 mm (120½ to 147¼ inches)	100-inch:	3850 to 4700 mm (151½ to 185½ inches)	120-inch:	4630 to 5660 mm (182½ to 227½ inches)	150-inch:	5810 to 7100 mm (228½ to 279½ inches)	200-inch:	7770 to 9500 mm (306 to 374½ inches)	300-inch:	11700 to 14300 mm (460½ to 563 inches)
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200-inch:	7770 to 9500 mm (306 to 374½ inches)																
300-inch:	11700 to 14300 mm (460½ to 563 inches)																

##### Signals

Color system:	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> /PAL-M/PAL-N (automatically/manual selected)
Resolution:	Video: 750 TV lines, RGB: 1024 × 768 pixels
Acceptable signals:	RGB (fh: 15 to 91 kHz, fv: 43 to 85 Hz), 15 kHz component 50/60 Hz system, Progressive component 60 Hz system, DTV (480/60P, 575/50P, 1080/50I, 720/60P, 720/50P), Composite video, Y/C video

##### General

Cabinet color:	Silky Silver / Turquoise Blue
Speaker:	Max. 5 W Wide frequency range 3 speakers Woofer: 65 mm (2½ inches) diameter, Max. 3 W Tweeter: 45 mm (1¾ inches) diameter, Max. 1 W × 2 (Stereo)
Power requirements:	100 to 240 V, 50/60 Hz
Power consumption:	Max. 290 W, Standby 5 W, Power saving mode 50 W
Operating temperature:	0 to 40 °C (32 to 104 °F)
Operating humidity:	35 to 85%
Dimensions:	339 (W) × 142 (H) × 335 (D) mm (13 ½ × 5 ½ × 13 ¼ inches)
Mass:	Approx. 7.2 kg (15 lb 14 oz)
Heat dissipation:	989.6 BTU
Fan noise:	Less than 34 dB (when lamp mode set to LOW: 30 dB)

##### Input/Output

VIDEO	Phono type, 1.0 Vp-p ±2 dB sync negative, 75 Ω
Composite:	Mini DIN 4-pin
Y/C IN:	1.0 Vp-p ±2 dB sync negative, 75 Ω
Y:	Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or
C:	0.3 Vp-p ±2 dB (PAL), 75 Ω
INPUT A:	HD D-sub 15-pin (female)/5 BNC (female)/Digital Interface Switched
Analog RGB:	HD D-sub 15-pin (female)
R:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
G with Sync:	1.0 Vp-p ±2 dB sync negative, 75 Ω

B:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD	
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
VD	
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Analog RGB/Component:	5-BNC (female)
R/R-Y/Pr:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
G with Sync/Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
B/B-Y/Ps:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD	
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
VD	
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Digital RGB:	DFP 20-pin (TMDS)
USB HUB:	Up (B type: female) x 1, Down (A type: female) x 1
MOUSE IN:	Square 13-pin (female)
AUDIO IN:	Stereo mini jack, 500 mV rms, impedance more than 47 kΩ

INPUT B	
Analog RGB:	HD D-sub 15-pin (female)
R:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
G with Sync:	1.0 Vp-p ±2 dB sync negative, 75 Ω
B:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD	
Composite sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
VD	
Vertical sync:	1.0 to 5.0 Vp-p, high impedance positive/negative
MOUSE IN:	Square 13-pin (female)
AUDIO IN:	Stereo mini jack, 500 mV rms, impedance more than 47 kΩ

OUTPUT	
MONITOR OUT <sup>*5</sup> :	HD D-sub 15-pin (female)
R/R-Y, G/Y, B/B-Y:	Gain Unity, 75 Ω
SYNC/HD, DV:	4.0 Vp-p (open), 1.0 Vp-p (75 Ω)
AUDIO OUT:	Stereo mini jack, Max. 1 V rms, when the input signal is 500 mV rms, impedance less than 5 kΩ

REMOTE	
RS-232C:	
CONTROL S IN/	
PLUG IN POWER:	5.0 Vp-p, plug in power, DC 5 V
Safety regulations	UL1950, CSA No.950, DHHS (Laser), FCC Class A, IC Class A, EN 60 950 (Nemko), CE, EN 60 825-1 (Laser), C-Tick, CCIB, VCCI class B, JEIDA (Laser)

Laser beam	
Laser type:	Class II
Wavelength:	645 nm
Output:	1 mW

<sup>\*1</sup> ANSI lumens is a measuring method of the American National Standards Institute IT.7.228.

<sup>\*2</sup> Compressed SXGA signal is reproduced while maintaining the 5:4 aspect ratio.

<sup>\*3</sup> The VPL-PX30 supports 480/60P, 575/50P, 1080/50I, 720/60P, and 720/50P DTV signals.

<sup>\*4</sup> Not available in some areas. For details, please contact your nearest Sony office.

<sup>\*5</sup> DIGITAL RGB signal is not output from the MONITOR OUT terminal.

## 2-3 LCD projectors

### VPL-S900U (NTSC/PAL/SECAM/NTSC<sup>4,43</sup>)

#### LCD Data Projector

- SVGA (800 × 600) resolution LCD (Liquid Crystal Display)-based portable presentation projector • Three dual actuated 1.3-inch p-Si TFT LCD panels for true SVGA resolution
- Output of 1000 ANSI lumens\*1 achieved through the use of metal mask technology on the LCD panels, high brightness projection lenses and a 120 W UHP lamp • Excellent uniformity and accurate color reproduction with advanced technologies including fly eye light integrators and bilinear interpolation method of Advanced Scan Conversion (ASC)
- Handles VGA, SVGA, XGA\*2 and SXGA\*2 resolution with horizontal frequencies of 15 to 91 kHz as well as composite video, Y/C video and component video signals • Simple set-up using 38 preset data and unique APA (Auto Pixel Alignment) function • Input B or Monitor out function easily switchable • Slim, contoured magnesium diecast body
- Seven-language on-screen display: English, French, German, Italian, Spanish, Japanese or Chinese • Grip-contoured remote control unit RM-PJM600 with laser pointer and mouse control function • Desktop, ceiling, front or rear projection • Optional lenses available to project optimum images on screens from 40 to 300 inches in size (viewable area, measured diagonally) • Built-in three-speaker stereo

Supplied Accessories: Remote Commander RM-PJM600

Mouse Cable SIC-S21/S22

Macintosh Adaptor

Signal Cable SMF-401

Audio Visual Cable (1.5 m)

AA size Battery (2)

Front Cover

Lens Cap

Strap for Remote Commander

Air Filter

AC Power Cord

Operation Manual

Quick Reference Sheet

Installation manual

Optional Accessories: Projector Lamp (for replacement) LMP-600  
2 times zoom Long Focus Lens VPLL-ZM100\*3  
Fixed Short Focus Lens VPLL-FM30  
Fixed Short Focus Lens VPLL-FM20  
Carrying Case VLC-600  
Suspension Support PSS-600\*3  
Mouse Cable SIC-S20/S21/S22  
Remote Control Receiver RM-PJ10  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401/402  
100-inch Flat Screen VPS-100FH\*3  
120-inch Flat Screen VPS-120FH\*3  
80-inch Flat Screen VPS-80C\*3

#### Specifications

##### Optical

Projection system:

3 LCD panels, 1 lens projection system  
LCD panel:

1.3-inch p-Si TFT LCD panel with Metal Mask,  
1,440,000 pixels (480,000 pixels × 3)

Projection lens:

1.3 times zoom lens, F2.0 to 2.4, f54 to 70 mm

Lamp:

120 W UHP

Screen coverage:

40 to 300 inches (viewable area, measured  
diagonally)

Light output:

1100 ANSI lumens\*1

Throwing distance:

40-inch:	1570 to 2000 mm (61 $\frac{7}{8}$ to 78 $\frac{3}{4}$ inches)
60-inch:	2400 to 3040 mm (94 $\frac{1}{2}$ to 119 $\frac{3}{4}$ inches)
80-inch:	3240 to 4090 mm (127 $\frac{1}{2}$ to 161 $\frac{1}{2}$ inches)
100-inch:	4070 to 5130 mm (160 $\frac{1}{2}$ to 202 inches)
120-inch:	4900 to 6180 mm (193 to 243 $\frac{3}{4}$ inches)
200-inch:	8240 to 10360 mm (324 $\frac{1}{2}$ to 408 inches)
300-inch:	12410 to 15580 mm (488 $\frac{3}{4}$ to 613 $\frac{1}{2}$ inches)

##### General

Color system:

NTSC/PAL/SECAM/NTSC<sup>4,43</sup>/PAL-M  
(automatically/manually selected)

Resolution:

Video: 600 TV lines, RGB: 800 × 600 pixels

Acceptable signals:

RGB (fH: 15 to 91 kHz, fV: 43 to 85 Hz), 15 kHz  
component 50/60 Hz system, composite video,  
Y/C video



Speaker:	Wide frequency range 3 speakers system (Woofer: 57 mm (2 $\frac{1}{4}$ inches) diameter, Max. 1 W, Tweeter: 28 mm (1 $\frac{1}{8}$ inches) diameter, Max. 0.2 W × 2)
Power requirements:	AC 220 to 240 V, 50/60 Hz (CE listed for 220 to 240 V AC operation)
Power consumption:	Max. 220 W, Standby 2 W
Heat dissipation:	750.7 BTU
Dimensions:	339 (W) × 136 (H) × 322 (D) mm (13 $\frac{1}{8}$ × 5 $\frac{3}{8}$ × 12 $\frac{1}{4}$ inches)
Mass:	Approx. 5.9 kg (13 lb)
Operating temperature:	0 to 40 °C (32 to 104 °F)
Operating humidity:	35 to 85%
<b>Input/Output</b>	
VIDEO IN:	
Composite video:	Phono type × 1, 1.0 Vp-p ±2 dB sync negative, 75 Ω
S video:	Mini DIN 4-pin
Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
C:	Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω
AUDIO IN:	Phono type × 2 (stereo), 500 mV rms, impedance more than 47 kΩ
INPUT A/B:	
Analogue RGB/Component:	
HD D-sub 15-pin (female)	
R/R-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
G with sync/Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC:	HD D-sub 15-pin (female)
C sync/HD:	
Composite sync:	1.0 to 5.0 Vp-p high impedance, sync positive/negative
Horizontal sync:	1.0 to 5.0 Vp-p high impedance, sync positive/negative
VD:	
Vertical sync:	1.0 to 5.0 Vp-p high impedance, sync positive/negative
MOUSE IN:	Square 13-pin (female)
AUDIO IN:	Stereo mini jack, 500 mV rms, impedance more than 47 kΩ
INPUT B:	
Monitor out:	HD D-sub 15-pin (female)
Video signal:	Gain unity
Sync signal:	4.0 Vp-p, high impedance/1.0 Vp-p, 75 Ω
AUDIO OUT (variable out)	Stereo mini jack, max. 1 V rms, when an output signal is 500 mV rms, impedance less than 5 kΩ
<b>Laser beam</b>	
Laser type:	Class II
Wavelength:	645 nm
Output:	1 mW
<b>Safety regulations</b>	UL1950, cUL 1950, FCC Class A, IC Class A, DHHS (Laser)

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 Compressed XGA and SXGA signals are reproduced while preserving the detail of the image.

\*3 Not available in some areas. For details, please contact your nearest Sony office.

## 2-3 LCD projectors

### VPL-PX1 (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

#### LCD Data Projector

• XGA (1024 × 768) resolution LCD (Liquid Crystal Display)-based data projector • Three 0.9-inch LCD panels for a total of 2,359,296 pixels • 120 W UHP lamp • High light output of 1000 ANSI lumens\*<sup>1</sup> • Excellent uniformity and accurate color reproduction assured with advanced technologies • Built-in zoom lens • Accepts VGA, SVGA, XGA and SXGA\*<sup>2</sup> with a horizontal frequency of 15, 24 to 91 kHz • Lightweight at approx. 4.0 kg • Seven-language on-screen menu • Supplied remote control unit RM-PJM600 controls all the projector functions • Mouse function operation for remote control of the connected computer source • Can be used with screens from 40 to 200 inches in size (viewable area, measured diagonally) • Built-in stereo speakers

Supplied accessories: Remote Commander RM-PJM600  
Signal Cable SMF-410  
Mouse Cable SIC-S22  
Audio Visual Cable (1.5 m)  
AA size Battery (2)  
Air Filter  
Operation Manual  
Quick Reference Sheet

Optional accessories: Projector Lamp (for replacement) LMP-P120  
Carrying Case VLC-SC50  
Interface Selector IFU-SC50  
Mouse Cable SIC-S20/S21/S22  
Signal Adaptor ADP-10  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/401/402  
50-inch Portable Screen VPS-50C\*<sup>3</sup>  
80-inch Portable Screen VPS-80C\*<sup>3</sup>



#### Specifications

##### Optical

Projection system: 3 LCD panels, 1 lens projection system  
LCD panel: 0.9-inch p-Si TFT LCD panel with Micro Lens Array, 2,359,296 pixels (786,432 pixels × 3)  
Projection lens: 1.3 times zoom lens, F1.7 to 2.0, f37.3 to 48.5 mm  
Lamp: 120 W plus UHP  
Screen coverage: 40 to 200 inches (viewable area, measured diagonally)  
Light output: 1000 ANSI lumens\*<sup>1</sup>  
Throwing distance:  
40-inch: 1590 to 2040 mm (63 to 80 inches)  
60-inch: 2440 to 3100 mm (96 to 122 inches)  
80-inch: 3280 to 4160 mm (129 to 164 inches)  
100-inch: 4120 to 5220 mm (162 to 206 inches)  
120-inch: 4970 to 6280 mm (196 to 247 inches)  
150-inch: 6230 to 7870 mm (245 to 310 inches)  
200-inch: 8340 to 10520 mm (328 to 414 inches)

##### General

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M (automatically/manual selected)  
Resolution: 750 TV lines (video), 1024 × 768 pixels (RGB)  
Acceptable signals: RGB (fh: 15, 24 to 91 kHz, fv: 50 to 85 Hz), 15 kHz component 50/60 Hz system, composite video, Y/C video  
Speaker: Max. 1 W × 2 (stereo)  
Power requirements: AC 100 to 240 V, 50/60 Hz  
Power consumption: Max. 190 W, Standby 2 W  
Heat dissipation: 648.4 BTU  
Dimensions: 108 (W) × 223 (H) × 337 (D) mm (4½ × 8⅞ × 13⅓ inches)  
Mass: Approx. 4 kg (8 lb 13 oz)  
Operating temperature: 0 to 40 °C (32 to 104 °F)  
Operating humidity: 35 to 85%

#### Input/Output

VIDEO IN:  
Composite: Phono type, 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
Y/C IN:  
Y: Mini DIN 4-pin  
C: 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω  
INPUT A:  
Analog RGB/Component:  
HD D-sub 15-pin (female)  
R/R-Y: 0.7 Vp-p ±2 dB, positive, 75 Ω  
G: 0.7 Vp-p ±2 dB, positive, 75 Ω  
G with Sync/Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
B/B-Y: 0.7 Vp-p ±2 dB, positive, 75 Ω  
SYNC/HD:  
Composite sync: 1.0 to 5.0 Vp-p, high impedance positive/negative  
Horizontal sync: 1.0 to 5.0 Vp-p, high impedance positive/negative  
VD:  
Vertical sync: 1.0 to 5.0 Vp-p, high impedance positive/negative  
MOUSE IN: Square 13-pin (female)  
AUDIO IN: Stereo mini jack, 500 mV rms, impedance more than 47 kΩ  
AUDIO OUT (variable out): Stereo mini jack, max. 1 V rms, when the input signal is 500 mV rms, impedance less than 5 kΩ

#### Laser beam

Laser type: Class II  
Wavelength: 645 nm  
Output: 1 mW

**Safety regulations**  
UL 1950, cUL 950 (CSA No.950), DHHS (Laser), FCC Class A, IC Class A, EN 60 950 (TÜV), CE, C-Tick, EN 60 825-1 (Laser)

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 Compressed SXGA signal is reproduced while preserving the detail of the image.

\*3 Not available in some areas. For details, please contact your nearest Sony office.

## 2-3 LCD projectors

### VPL-CS1 (NTSC/PAL/SECAM/NTSC4.43/PAL-M) LCD Data Projector

- SVGA (800 × 600) LCD (Liquid Crystal Display)-based data projector
- Three 0.7-inch SVGA LCD Panels for a total of 1,440,000 pixels
- 120 W UHP lamp
- Light output of 600 ANSI lumens<sup>\*1</sup>
- Excellent uniformity and accurate color reproduction assured with advanced technologies
- Built-in 1.3 times zoom lens
- Accepts VGA, SVGA, XGA<sup>\*2</sup> and SXGA<sup>\*2</sup> with a horizontal frequency of 15, 24 to 91 kHz
- Extremely compact and lightweight at 2.9 kg
- On-screen menus with a choice of seven languages for adjustment/operation
- Supplied remote commander RM-PJM1 controls all the projector functions
- Mouse function operation for remote control of the connected computer source
- Can be used with screens from 40 to 150 inches in size (viewable area, measured diagonally)
- Built-in stereo speakers

Supplied accessories: Remote Commander RM-PJM1  
Signal Cable SMF-410  
Mouse Cable SIC-S22  
USB Cable  
USB Application Software PROJECTOR STATION  
Carrying Bag  
AAA size Battery (2)  
Air Filter  
Operation Manual  
Quick Reference Sheet

Optional accessories: Projector Lamp (for replacement) LMP-C120  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400/402/410  
50-inch Portable Screen VPS-50C<sup>\*3</sup>

### Specifications

#### Optical

Projection system: 3 LCD panels, 1 lens projection system  
LCD panel: 0.7-inch p-Si TFT LCD panel,  
1,440,000 pixels (480,000 pixels × 3)  
Lamp: 120 W UHP  
Screen coverage: 40 to 150 inches (viewable area, measured diagonally)  
Light output: 600 ANSI lumens<sup>\*1</sup>  
Throwing distance  
40-inch: 1580 to 2010 mm (62½ to 78½ inches)  
60-inch: 2390 to 3060 mm (94½ to 120½ inches)  
80-inch: 3210 to 4100 mm (126 ½ to 161 ½ inches)  
100-inch: 4030 to 5150 mm (158 ½ to 202 ½ inches)  
120-inch: 4850 to 6200 mm (191 to 244 ½ inches)  
150-inch: 6080 to 7780 mm (239 ½ to 306 ½ inches)  
Signals

Color system: NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N  
(automatically/manually selected)  
Resolution: 600 TV lines (video), 800 × 600 pixels (RGB)  
Acceptable signals: RGB (fH: 15 to 91 kHz, fV: 43 to 85 Hz),  
15 kHz component 50/60 Hz system, composite video, Y/C video

#### General

Speaker: Max. 0.5 W × 2 (stereo)  
Power requirements: AC 100 to 240 V, 50/60 Hz  
Power consumption: Max. 190 W, Standby 4.2 W  
Operating temperature: 0 to 35 °C (32 to 95 °F)  
Operating humidity: 35 to 85%  
Dimensions: 277 (W) × 70 (H) × 214 (D) mm  
(11 × 2 7/8 × 8 1/2 inches)  
Mass: Approx. 2.9 kg (6 lb 6 oz)  
Heat dissipation: 648.4 BTU

#### Input/Output

VIDEO IN:  
Composite: Phono type, 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
Y/C IN: Mini DIN 4-pin  
Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
C: Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or  
0.3 Vp-p ±2 dB (PAL), 75 Ω



DISPLAY  
PRODUCTS

#### INPUT A:

Analog RGB/  
Component:  
R/R-Y: HD D-sub 15-pin (female)  
G: 0.7 Vp-p ±2 dB, positive, 75 Ω  
B/B-Y: 0.7 Vp-p ±2 dB, sync negative, 75 Ω  
Sync/HD:  
Composite sync: 1.0 to 5.0 Vp-p, high impedance positive/negative  
Horizontal sync: 1.0 to 5.0 Vp-p, high impedance positive/negative

VD:  
Vertical sync: 1.0 to 5.0 Vp-p, high impedance positive/negative  
6-pin (female)  
MOUSE IN:  
USB HUB:  
AUDIO IN:

UP (B type female), Down (A type female)  
Stereo mini jack, 500 mV rms, impedance more than  
47 kΩ

#### Safety regulations

UL1950, CSA No.950, FCC Class A, IC Class A,

EN 60 950 (Nemko), CE, C-Tick, CCIB,

VCCI Class B

<sup>\*1</sup> ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

<sup>\*2</sup> Compressed XGA and SXGA signals are reproduced while preserving the detail of the image.

<sup>\*3</sup> Not available in some areas. For details, please contact your nearest Sony office.

## 2-3 LCD projectors

### VPL-VW10HT (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M/PAL-N) LCD Video Projector

- Wide XGA (1366 × 768) LCD (Liquid Crystal Display)-based projector designed for a home theater
- Three 16:9 1.35-inch LCD panels
- 200 W UHP lamp
- Light output of 1000 ANSI lumens\*<sup>1</sup> (In the "normal" mode, 16:9 aspect)
- Superb picture quality with Digital Reality Creation - Multi Function™, 3D gamma correction and 3D<sup>\*2</sup>/3-line YC separation/DNR circuit
- Cinema black mode
- Video memory
- Through mode for one to one mapping
- Low fan noise
- White cabinet
- Short throwing distance
- RGB input acceptable
- Remote control unit RM-PJWW10 supplied

Supplied accessories: Remote commander RM-PJWW10  
AA size Battery (2)

Air Filter

Operation Manual

Optional accessories: Projector Lamp (for replacement) LMP-P200  
Suspension Support PSS-610  
Signal Adaptor ADP-20 (Macintosh to VGA)  
Signal Cable SMF-400



#### Specifications

##### Optical

Projection system: 3 LCD panels, 1 lens projection system  
LCD panel: 1.35-inch p-Si TFT LCD panel,  
3,147,264 pixels (1,049,088 pixels × 3)  
Projection lens: 1.2 times zoom lens, F2.2 to 2.5, f44.6 to 53.6 mm  
Lamp: 200 W UHP  
Screen coverage: 40 to 300 inches (16:9, viewable area, measured diagonally)  
Light output: 1000 ANSI lumens\*<sup>1</sup> (16:9), 750 ANSI lumens (4:3)  
Throwing distance:

<16:9>		
40-inch:	1260 to 1470 mm	(49½ to 57 inches)
60-inch:	1930 to 2240 mm	(76 to 88¼ inches)
80-inch:	2600 to 3010 mm	(102½ to 118½ inches)
100-inch:	3270 to 3780 mm	(128½ to 148½ inches)
120-inch:	3930 to 4550 mm	(154½ to 179¼ inches)
150-inch:	4940 to 5710 mm	(194½ to 224½ inches)
180-inch:	5940 to 6860 mm	(234 to 270½ inches)
200-inch:	6610 to 7630 mm	(260 to 300½ inches)
250-inch:	8270 to 9560 mm	(325½ to 376½ inches)
300-inch:	9940 to 11480 mm	(391½ to 452½ inches)

<4:3>		
40-inch:	1560 to 1820 mm	(61½ to 71¼ inches)
60-inch:	2380 to 2760 mm	(93¾ to 108¼ inches)
80-inch:	3200 to 3700 mm	(126 to 145½ inches)
100-inch:	4020 to 4650 mm	(158½ to 183½ inches)
120-inch:	4830 to 5590 mm	(190½ to 220½ inches)
150-inch:	6060 to 7000 mm	(238½ to 275½ inches)
180-inch:	7290 to 8420 mm	(287½ to 331½ inches)
200-inch:	8100 to 9360 mm	(319 to 368½ inches)
250-inch:	10150 to 11720 mm	(399½ to 461½ inches)
300-inch:	12190 to 14070 mm	(480 to 554½ inches)

##### Signals

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M/PAL-N  
(automatically/manually selected)  
Resolution: 750 TV lines (video), 1100 TV lines (HD),  
1366 × 768 pixels (RGB)  
Acceptable signals: DTV (480I, 480P, 720P, 1080I), progressive component, 15 kHz component 50/60 Hz system, composite video, Y/C video, RGB (fH: 15 to 91 kHz, fV: 50 to 85 Hz)

##### General

Power requirements: AC 100 to 240 V, 50/60 Hz  
Power consumption: Max. 300 W, Standby 6 W  
Heat dissipation: 1023.7 BTU  
Dimensions: 395 (W) × 168 (H) × 427 (D) mm  
(15½ × 6½ × 16¾ inches)  
Mass: Approx. 8 kg (17 lb 10 oz)  
Operating temperature: 0 to 40 °C (32 to 104 °F)  
Operating humidity: 35 to 85%



#### Input/Output

VIDEO IN:	Composite: Phono type, 1.0 Vp-p ±2 dB sync negative, 75 Ω
Y/C IN:	Mini DIN 4-pin
Y:	1.0 Vp-p ±2 dB sync negative, 75 Ω
C:	Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω
INPUT A/B:	Component/Progressive: Phono type
Component/YPBPR/	Component/YPBPR/
Analog RGB:	G: 0.7 Vp-p ±2 dB positive, 75 Ω G with sync /Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω B/CB/PB: 0.7 Vp-p ±2 dB positive, 75 Ω R/CR/PR: 0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD:	Composite sync: 1.0 to 5.0 Vp-p, high impedance positive/negative Horizontal sync: 1.0 to 5.0 Vp-p, high impedance positive/negative
VD:	Vertical sync: 1.0 to 5.0 Vp-p, high impedance positive/negative
CONTROL S IN/	Stereo mini jack 5.0 Vp-p
PLUG IN POWER:	Plug in power DC 5 V
TRIGGER:	Mini jack
Power on:	DC 12 V, output impedance: 4.7 kΩ
Power off:	0 V
REMOTE (RS-232 C):	D-sub 9-pin (female)
Safety regulations	UL, cUL (CSA), FCC Class B, IC Class B, EN 60 950 (Nemko), CE, C-Tick, VCCI class B, JEIDA

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 This function is only applicable to NTSC signals.

## 2-4 Data projector

**VPD-LE100** (NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M)

- Multiscan projector with DLP™ (Digital Light Processing™) technology
- Outstanding brightness of 10000 ANSI lumens\*
- Three SXGA (1280 × 1024) DMD™ (Digital Micromirror Device™) panels for a total of 3,932,160 pixels
- Xenon lamp
- Sony Digital Reality Creation as standard, while 2-3 pull down FILM mode\*<sup>2</sup> can be selected
- Accepts VGA, SVGA, XGA, SXGA and UXGA\*<sup>3</sup> with a horizontal frequency of 15 to 100 kHz, component video, RGB video and HDTV/DTV signals
- Power Zoom, Power Focus and horizontal/vertical Power Lens Shift functions for installation flexibility
- A wide range of optional lenses covering various installation demands
- Optional IFB boards available including 4:2:2 SDI and HD SDI
- Can be used with screens from 70 to 700 inches in size (viewable area, measured diagonally)

Supplied accessories:

- Remote Commander RM-PJ1001
- Remote Commander Cable (15 m)
- AA size Battery (3)
- AC Power Cord
- PJ COM Terminator
- Lens Ring
- Operation Manual
- Installation Manual

Optional accessories:

- Projector Lamp (for replacement) LMP-L2000
- 1.3 times zoom Short Focus Lens VPDL-Z1014
- 1.2 times zoom Standard Focus Lens VPDL-Z1019
- 1.6 times zoom Middle Focus Lens VPDL-Z1023
- 1.8 times zoom Long Focus Lens VPDL-Z1037
- Suspension Support PSS-10/2000
- Stack Stand SU-PJ2000
- Interface Board IFB-12A/20\*<sup>4</sup>/21/30\*<sup>4</sup>/50/1000/LE100
- Signal Interface Cable SIC-20A\*<sup>4</sup>/20C\*<sup>4</sup>/21\*<sup>4</sup>/22\*<sup>4</sup>
- Signal Interface Switcher PC-3000\*<sup>4</sup>
- Remote Commander RM-PJ3000S
- Remote Control Receiver RM-PJ10
- Signal Adaptor ADP-10 (HD D-sub 15-pin to D-sub 9-pin for SIC cable)
- Signal Adaptor ADP-20 (Macintosh to VGA)
- Signal Cable SMF-400/401
- Remote Control Cable RCC-5G/10G/30G (for RS-422A)
- 100-inch Flat Screen VPS-100FH\*<sup>4</sup>
- 120-inch Flat Screen VPS-120FH\*<sup>4</sup>

### Specifications

#### Optical

Projection system: 3 DMD panels, 3 panel prism color integration system

DMD panel: SXGA DMD panel, 3,932,160 pixels (1,310,720 pixels × 3)

Lamp: Xenon lamp

Light output: 10,000 ANSI lumens\*

Screen coverage: 70 to 700 inches (viewable area, measured diagonally)

**General**

Color system: NTSC/PAL/SECAM/NTSC<sub>4.43</sub>/PAL-M automatically selected

Resolution: 600 TV lines (video)

Scanning frequency: 1280 × 1024 pixels (RGB)

Horizontal: 15 to 100 kHz

Vertical: 40 to 120 Hz

Display area: >6.4 usec

Power requirements: AC 220 to 240 V, 50/60 Hz

Power consumption: Approx. 2.8 kW, Standby approx. 40 W

Heat dissipation: 9556 BTU

Operating temperature: 10 to 35 °C (50 to 90 °F)

Operating humidity: 35 to 85% (No condensation)

Storage temperature: 0 to 35 °C (32 to 90 °F)

Storage humidity: 10 to 90%

Dimensions: 724 (W) × 347.5 (H) × 948.2 (D) mm (28½ × 13¾ × 37⅔ inches)

Mass: Approx. 95 kg (209 lb)



#### Input/Output

Input A:	BNC x 5
Analog RGB/Component:	R/R-Y: 0.7 Vp-p ±2 dB positive, 75 Ω
G:	0.7 Vp-p ±2 dB positive, 75 Ω
Y/G with sync:	1.0 Vp-p V ±2 dB sync negative, 75 Ω
B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
SYNC/HD	Composite sync: 0.6 to 8.0 Vp-p, high impedance, sync positive/negative
Horizontal sync:	0.6 to 8.0 Vp-p, high impedance, sync positive/negative
Vertical sync:	0.6 to 8.0 Vp-p high impedance, sync positive/negative
STV/HDVS (Y/Pb/Pr):	BNC
Y:	1.0 Vp-p ±2 dB positive, 75 Ω
Pb/Pr:	Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p
DTV/HDVS (GBR):	±0.35 Vp-p ±2 dB positive, 75 Ω
G with sync:	BNC
B/R:	1.0 Vp-p ±2 dB, 75 Ω
Input B/C:	Tri-level sync: ±0.3 Vp-p, Bi-level sync: 0.3 Vp-p
Input D:	0.7 Vp-p ±2 dB positive, 75 Ω
CONTROL S IN/PLUG IN POWER:	Open for optional IFB boards
CONTROL S OUT:	Open for optional IFB-LE100
REMOTE I/F:	Stereo mini-jack 5.0 Vp-p,
RS-232C/422A:	Plug in power DC 5 V, Max. output: 60 mA
TRIG:	Stereo mini jack 5.0 Vp-p
	D-sub 9-pin (female) selectable
	Mini-jack
	Power On: 12 V
	Power Off: 0 V
	Output impedance: 4.7 kΩ

#### Safety regulations

UL1950, cUL950, FCC Class A, IC Class A, VCCI

Class A, JEIDA, EN60 950 (TÜV), CE, C-tick

\*1 ANSI lumens is a measuring method of the American National Standards Institute IT7.228.

\*2 Applicable only to NTSC (525/60), NTSC<sub>4.43</sub> and PAL-M signals.

\*3 Compressed UXGA signal is reproduced while preserving the detail of the image.

\*4 Not available in some areas. For details, please contact your nearest Sony office.

## 2-5 Projector accessories

### VID-P50

#### Video Presentation Stand

•Clear image reproduction with a high horizontal resolution of over 460 TV lines •12 times powered zoom capability •Fully automatic functions (auto focus, auto iris, auto white balance) for easy operation •Lighting unit as standard •Flip up and tilt camera head up to 90 degrees to capture images within the room •One-touch detachable close-up lens •Video output and S-video (Y/C) output connector •Document area is (300 × 300 mm) enabling the use of A4 or letter size documents or other presentation materials •Light weight, easy-to-carry design

Supplied accessories: AC cable  
Operation manual

#### Specifications

##### General

Pickup device:	1/3 inch Interline-transfer CCD × 1	Dimensions:          Mass: Power requirement:
Picture element:	768 (H) × 494 (V)	
Resolution:	More than 460 TV lines (horizontal)	
S/N ratio:	More than 48 dB	
Lens:	F1.8 f=5.4~64.8 mm (× 12 power zoom)	
Shooting area:	300 × 225 mm (WIDE) (11 7/8 × 10 1/8 inches)	
	25 × 19 mm (TELE) (1 × 3/4 inches)	
Focus:	Full Auto	
Iris:	Full Auto	
Lighting:	4W fluorescent lamp × 1	
White balance:	Full Auto	
Outputs:	Video (Phono connector × 1) 1Vp-p sync negative S-video (4pin mini DIN × 1) Y: 1Vp-p, 75 Ω sync negative C: 0.286Vp-p, 75 Ω	
		335 (W) × 525 (H) × 355 (D) mm (13 1/4 × 20 3/4 × 14 inches) <when folded> 335 (W) × 70 (H) × 550 (D) mm (13 1/4 × 2 7/8 × 21 3/4 inches)
		4.1 kg (9 lb 1 oz)
		AC 120 V 60 Hz 150 mA



### VID-P110

#### Video Presentation Stand

•Three-dimensional objects just as well as flat objects such as charts, drawings, books etc. can be displayed on TV monitors and projectors •1/3-inch CCD camera provides a high horizontal resolution of over 460 TV lines •Auto focus, auto iris control and auto white balance •Two pattern memories •One-touch, swing out, close-up lens •12 times powered zoom capability •Flip up, pan and tilt camera head •Dual arm lights, each with two 9 w fluorescent lamps •Built-in back light function •Input selector •S-video input / output connections (Y/C separate/mix circuit) •Black and white mode •RS-232C interface for control from a PC •Light-weight, compact and easy-to carry design

Supplied accessories: AC power code (1)  
Operation manual (1)  
Interface manual (1)

#### Specifications

Pick-up device:	1/3 inch interline transfer, CCD	Output connectors:          Power requirements: Power consumption: AC outlet: Mass: Dimensions:
Picture element:	768 (H) × 494 (V)	
Resolution:	More than 460 TV lines	
Shooting Area:	325 × 240 mm (max.)	
	29 × 22 mm (min.)	
Lens:	F=1.8 to 2.7, f=5.4 to 64.8 mm	
Output selector:	Camera/Video 1/Video 2	
Arm light:	9 W twin-fluorescent lamp (2)	
Built-in backlight:	2.5 W cold cathode ray lamp (2)	
Input connectors:	Phono (2) 1Vp-p, 75 Ω, sync negative 4-pin mini DIN (2) Y: 1Vp-p, 75 Ω sync negative C: 0.286Vp-p, 75 Ω	
Video in:	Phono (2) 1Vp-p, 75 Ω, sync negative	
S video in:	4-pin mini DIN (2) Y: 1Vp-p, 75 Ω sync negative C: 0.286Vp-p, 75 Ω	
Audio in:	Phono (2) pair, stereo Input impedance: 47k Ω Level: -10 dBu, unbalanced	
Mic in:	Standard jack (1) Input impedance: 3.3k Ω Level: -60 dBu, unbalanced	



## 2-5 Projector accessories

### VID-P150

#### Video Presentation Stand

- Three-dimensional objects just as well as flat objects such as charts, drawings, books etc. can be displayed on TV monitors and projectors
- 1/3-inch CCD camera provides a high horizontal resolution of over 460 TV line
- Auto focus, auto iris control and auto white balance
- Four pattern memories
- One-touch, swing out, close-up lens
- 12 times powered zoom capability
- Flip up, pan and tilt camera head
- Motorized (remotely controlled) pan and tilt camera head
- Home position for quick return to standard camera position
- Dual arm lights, each with two 9 w fluorescent lamps
- Built-in back light function
- Input selector
- S-video input / output connections (Y/C separate/mix circuit)
- Black and white mode
- Wireless Remote Commander supplied as standard
- RS-232C interface for control from a PC
- Light-weight, compact and easy-to carry design

Supplied accessories: Wireless remote commander (1)

AC power code (1)

Operation manual (1)

Interface manual (1)

Dry battery (2) (for remote commander)

#### Specifications

Pick-up device:	1/3 inch interline transfer, CCD	S video out	4-pin mini DIN (1) Y: 1 Vp-p, 75 Ω, sync negative C: 0.286 Vp-p, 75 Ω
Picture element:	768 (H) × 494 (V)	Audio out	Phono (1) pair, stereo Output impedance: less than 600 Ω
Resolution:	More than 460 TV lines	Camera monitor out	Level: -10 dBu, unbalanced Phono jack (1) 1 Vp-p, 75 Ω, sync negative
Shooting Area:	Approx. 325 × 260 mm (max.)	Wireless remote commander:	Supplied as standard Service Area 60°, 5 m
Lens:	Approx. 31 × 23 mm (min.)	RS-232C connector:	D-sub 9-pin, male Baud rate: 9600 bps
	F=1.8 to 2.7, f=5.4 to 64.8 mm	Power requirements:	120 V AC, 60 Hz
Output selector:	Camera / Video 1 / Video 2	Power consumption:	120 V, 3 A
Arm light:	9 W twin-fluorescent lamp (2)	AC outlet:	max. 300 W, unswitched
Built-in backlight:	2.5 W cold cathode ray lamp (2)	Mass:	8.8 kg (19 lb 6 oz)
Input connectors:		Dimensions:	446 (W) × 625 (H) × 622 (D) mm (17 5/8 × 24 5/8 × 24 1/2 inches)
Video in	Phono (2) 1Vp-p, 75 Ω, sync negative		446 (W) × 190 (H) × 711 (D) mm (when folded) (17 5/8 × 7 1/2 × 28 inches)
S video in	4-pin mini DIN (2) Y: 1 Vp-p, 75 Ω sync negative C: 0.286 Vp-p, 75 Ω		
Audio in	Phono (2) pair, stereo Input impedance: 47k Ω Level: -10 dBu, unbalanced		
Mic in	Standard jack (1) Input impedance: 3.3k Ω Level: -60 dBu, unbalanced		
Output connectors:			
Video out	Phono (1), BNC (1) 1Vp-p, 75 Ω, sync negative		



## 2-5 Projector accessories

### PC-3000\*<sup>1</sup>

#### Signal Interface Switcher for VPH-G90U and VPL-FE100U/FX200U\*<sup>2</sup>

- Provides eight slots for optional interface boards and one fixed output with 150 MHz cable compensation
- Up to eight PC-3000 units can be connected, enabling up to 57 different signals to be connected in a system
- RGB bandwidth of 300 MHz
- Equipped with an RS-232C/RS422A communication port
- Equipped with a PJ COM port, in accordance with RS-485
- Incorporates an LCD display in the front panel for easier setting and adjustments
- Input selection of a connected projector, as well as the input selection of the PC-3000 itself, can be controlled via the front panel
- Last channel memory
- Can be easily controlled with optional remote control unit RM-PJ3000S
- Trig terminal to provide control of an integrated projection room
- 19-inch EIA standard rack mountable with the supplied mount kit

Supplied accessories: AC cable  
Mount Kit for 19-inch EIA standard rack  
Operating Instructions  
Terminator

Optional accessories: Remote Commander RM-PJ3000S  
Remote Control Cable RCC-5G/10G/30G  
(for PJ COM and RS-422A)



### Specifications

#### General

RGB bandwidth: 300 MHz -3 dB  
Power requirements: 100 to 240 V, 50/60 Hz  
Power consumption: 80 W  
Dimensions: 424 (W) x 133 (H) x 420 (D) mm  
(16<sup>1</sup>/<sub>16</sub> x 5<sup>1</sup>/<sub>4</sub> x 16<sup>17</sup>/<sub>32</sub> inches)

Mass: 9.3 kg (20 lb 7 oz)

#### Output

BNC connector (8), DIN 4-pin (1)  
Video signal: Gain unity, impedance 75 Ω  
Sync signal: 5 Vp-p (Impedance high)  
1 Vp-p (Impedance 75 Ω)  
Audio: Gain unity, impedance 1 kΩ  
Control S  
IN/ OUT: Stereo mini jack, 5 Vp-p  
PLUG IN POWER: DC 5 V maximum output 60 mA  
OUT: Stereo mini jack, 5 Vp-p  
TRIG: Mini jack  
Power ON: DC 12 V, output impedance 4.7 kΩ  
Power OFF: 0 V

#### Remote

RS-232C/422A: D-sub 9-pin (female)  
PJ COM IN/OUT: D-sub 9-pin (female)  
Remote 2: Half pitch 26-pin

\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 With the optional IFB-40, the PC-3000 is also compatible with other current projectors.

## 2-5 Projector accessories

### IFU-1271\*1

#### Interface Unit for VPH-G90U/G70Q/

#### G70VRU/D50Q/D50HTU/V20U

- One in/two out signal distributor with 100MHz bandwidth\*2
- Converts digital signal level to analog signal level for output
- Sync output mode selection

Input: (Open for an optional IFB Series input module)  
Output: BNC × 5 (x2)  
Phono (x2)  
(stereo or monaural selectable)  
Bandwidth: 120 MHz (-3 dB)  
Power requirements: AC 120 V, 50/60 Hz  
Dimensions: 180 (W) × 105 (H) × 185 (D) mm  
(7<sup>1</sup>/<sub>8</sub> × 4<sup>1</sup>/<sub>4</sub> × 7<sup>3</sup>/<sub>8</sub> inches)  
Mass: 3 kg (6 lb 9.8 oz)  
Supplied accessories:  
AC power cord  
Operation manual



\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 The output signal from IFB-1000 is the same as the input. The output signal from IFB-1200 can be changed according to the selection switch on the board (component/RGB).

### IFU-SC50

#### Interface Unit for the VPL-S900U/PX1

- Two input, one output signal selector - allows two computers to be simultaneously connected to one projector
- Built-in mouse receiver for wireless mouse control

#### Input/Output

INPUT 1/2:  
HD D-sub 15-pin (female)

OUTPUT: HD D-sub 15-pin (male)

Mouse IN: Square 13-pin (female)

Audio IN/OUT:

Stereo mini jack

#### Frequency response:

Up to fH: 80 kHz  
(SXGA 1280 × 1024, fV: 75 Hz)

Cable length: 0.5 m (19 3/4 inches)

Dimensions: 108 (W) × 48.5 (H) × 108 (D) mm  
(4<sup>3</sup>/<sub>8</sub> × 11<sup>5</sup>/<sub>16</sub> × 4<sup>3</sup>/<sub>8</sub> inches)

Mass: Approx. 370 g (13 oz)



### IFB-12A

#### Interface Board for VPH-G90U/ G70Q/G70VRU/D50Q, VPL-FE100U/ FX200U, VPD-LE100, PC-3000 and

#### IFU-1271

- Accepts analog RGB, component (Y/R-Y/B-Y), HDTV (Y/Pb/Pr, GBR), composite video and Y/C video signals
- RGB bandwidth of 300 MHz -3 dB
- Cable compensation function for output signals (150 MHz)

#### Input/Output

Video: BNC (5)

Audio: Phono (2)

(stereo or monaural selectable)

Dimensions: 129 (W) × 35 (H) × 138 (D) mm  
(5<sup>1</sup>/<sub>8</sub> × 1<sup>7</sup>/<sub>16</sub> × 5<sup>1</sup>/<sub>2</sub> inches)

Mass: Approx. 200 g (7 oz)



\*For input only. Acceptable signals vary according to the connected projector.

### IFB-21\*

#### Interface Board for VPH-G90U/ G70Q/G70VRU/D50Q, VPL-FE100U/ FX200U, VPD-LE100 and IFU-1271

- RGB bandwidth of 150 MHz

#### Input

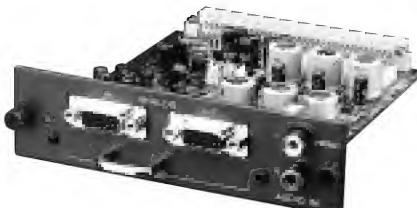
RGB: Analog, HD D-sub 15-pin

AUDIO: Phono

(stereo or monaural selectable)

Dimensions: 129 (W) × 35 (H) × 138 (D) mm  
(5<sup>1</sup>/<sub>8</sub> × 1<sup>7</sup>/<sub>16</sub> × 5<sup>1</sup>/<sub>2</sub> inches)

Mass: Approx. 200 g (7 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

## 2-5 Projector accessories

### IFB-40

- Interface Board for VPH-G90U/  
G70Q/G70VRU/D50Q and PC-3000**
- 14-pin multi-connector input/output board (for SIC-M/CCQ cable)
  - Used to connect projector to signal interface switcher PC-3000\*
  - RGB bandwidth of 70 MHz
  - Cable compensation function for output signal (70 MHz)

**Input/Output:**

14-pin multi connectors  
(Input: male, Output: female)

**Power requirements:**

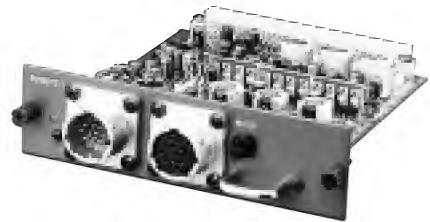
DC 12 V

**Power consumption:**

Max. 2 W

**Dimensions:** 129 (W) × 35 (H) × 138 (D) mm  
(5 $\frac{1}{8}$  × 1 $\frac{7}{16}$  × 5 $\frac{1}{2}$  inches)

**Mass:** Approx. 200 g (7 oz)



\*The IFB-40 can also be used to connect the VPH-G90U to the interface switcher PC-1271 with 5 BNC mode

### IFB-50

- Interface Board for VPH-G90U/  
G70Q/G70VRU/D50Q, VPL-FE100U/  
FX200U, VPD-LE100, PC-3000 and  
IFU-1271**

- Component SDI
- Serial Digital Interface board for SMPTE-259 M-C/ITU-R BT656-3 4:2:2 video signals
- IFB-50 manages video signals only. Serial digital audio signals are not supported.

**Input/Output**

In: BNC, Component SDI

Out: BNC, Active loop-through

**Dimensions:** 129 (W) × 35 (H) × 138 (D) mm  
(5 $\frac{1}{8}$  × 1 $\frac{7}{16}$  × 5 $\frac{1}{2}$  inches)

**Mass:** Approx. 200 g (7 oz)



### IFB-1000

- Interface Board for VPH-G90U/  
G70Q/G70VRU/D50Q, VPL-FE100U/  
FX200U and IFU-1271**

**Input**

- Composite\*: Loop-through BNC
  - Y/C\*: Loop-through 4-pin mini DIN
  - Audio: Phono  
(stereo or monaural selectable)
- Dimensions:** 129 (W) × 35 (H) × 138 (D) mm  
(5 $\frac{1}{8}$  × 1 $\frac{7}{16}$  × 5 $\frac{1}{2}$  inches)
- Mass:** 160 g (5.6 oz)



\* The Y/C IN has priority over the Composite IN.

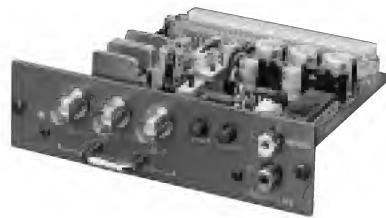
### IFB-1200\*<sup>1</sup>

- Interface Board for VPH-G70Q/  
D50Q\*<sup>2</sup> and IFU-1271**

- Can provide component input to a projector

**Input**

- Component: BNC (x3)  
(Y/R-Y/B-Y)
  - Audio: Phono  
(stereo or monaural selectable)
- Dimensions:** 129 (W) × 35 (H) × 138 (D) mm  
(5 $\frac{1}{8}$  × 1 $\frac{7}{16}$  × 5 $\frac{1}{2}$  inches)
- Mass:** 0.18 kg (6.3 oz)



\*1 Not available in some areas. For details, please contact your nearest Sony office.

\*2 Component (Y/R-Y/B-Y) input capability can be attained with IFB-12A.

## 2-5 Projector accessories

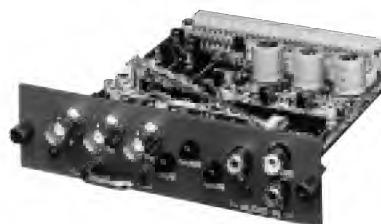
### IFB-1301

#### Interface Board for VPH-G70Q/

#### D50Q and IFU-1271

- HD (Y/Pb/Pr) input
- Converts Y/Pb/Pr signals to RGB signals
- Color, Hue and Sharpness adjustment available
- Audio (Left (Mono)/Center/Right) input

Input HD:	BNC Y (luminance): 1.0 Vp-p ±2 dB, 75 Ω Pb/Pr (component): ±0.35 Vp-p, 75 Ω
Output G/Y:	1.0 Vp-p ±2 dB, 75 Ω
B/R:	0.7 Vp-p ±2 dB, 75 Ω
Pb/Pr:	0.35 Vp-p, 75 Ω
Audio*:	Phono (stereo/monaural) 250 mV rms, impedance more than 47 kΩ
Dimensions:	129 (W) × 35 (H) × 138 (D) mm (5 1/8 × 17/16 × 5 1/2 inches)
Mass:	200 g (7 oz)



### IFB-1400

#### Interface Board for VPH-G90U/

#### G70Q/G70VRU/D50Q

- Accepts progressive (525P/480P) component

#### Input

##### Progressive component:

BNC type

- Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω
  - Cb: 0.7 Vp-p ±2 dB positive, 75 Ω
  - Cr: 0.7 Vp-p ±2 dB positive, 75 Ω
- Dimensions: 129 (W) × 35 (H) × 138 (D) mm  
(5 1/8 × 17/16 × 5 1/2 inches)
- Mass: Approx. 140 g (5 oz)



### EXB-DS10

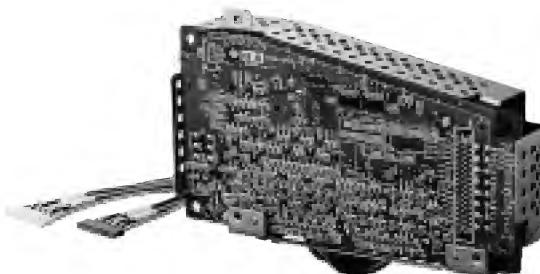
#### Extension Board for VPH-G70Q/

#### G70VRU/D50Q/D50HTU\*

- Line-doubler signal processing board
- Compatible with composite video, Y/C video, component and 15kHz RGB signals
- Aperture is adjustable horizontally and vertically to achieve crisp image reproduction with any type of input signal
- Line-doubler signal processing can be turned ON and OFF via the remote control unit or control panel
- Moving image correction circuitry is incorporated for natural reproduction of line-doubled fast-moving images
- Digital noise reducer incorporated
- Compatible with NTSC, PAL, SECAM,

#### NTSC4.43 and PAL-M

- 3D comb filter or 3-line comb filter for NTSC and 3-line comb filter for PAL signals to reduce cross color and dot interference for clear image reproduction

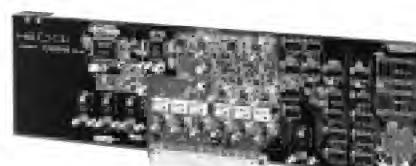


\*Pre-installed in VPH-D50HTU.

### EXB-5010

#### Extension Board for PC-3000

- Designed to connect an RGB monitor to the PC-3000
- Converts HDTV (GBR, Y/Pb/Pr) and component (Y/R-Y/B-Y) signals to RGB signal
- Color, Hue and Sharpness can be controlled with EXB-5010



## 2-5 Projector accessories

### SIC-10

Signal Interface Cable for

VPH-G90U/G70Q/G70VRU/D50Q/  
D50HTU/V20U

Connector: 5 BNC/5 BNC

Length: 10 m (32.8 ft)



### SIC-20A\*/20C\*

Signal Interface Cable for VPH-G90U/  
G70Q/G70VRU/D50Q, VPL-FE100U/

FX200U and VPD-LE100

- SIC-20A for Macintosh II Series
- SIC-20C for Power Macintosh, Macintosh LC, PowerBook, Quadra and Centris

Connector: D-sub 15-pin to local monitor (female)

D-sub 15-pin to computer (male)

D-sub 9-pin to IFB-20 (female)

Length: 2 m (6.6 ft) overall, 0.2 m (0.7 ft) branch



SIC-20C

\* Not available in some areas. For details, please contact your nearest Sony office.

### SIC-21\*

Signal Interface Cable for VPH-G70Q/  
G70VRU/D50Q and VPD-LE100

Connector: D-sub 9-pin to local monitor (female)

D-sub 9-pin to computer (male)

D-sub 9-pin to IFB-20 (female)

Length: 2 m (6.6 ft) overall, 0.2 m (0.7 ft) branch



\* Not available in some areas. For details, please contact your nearest Sony office.

### SIC-22\*

Signal Interface Cable for VPH-G90U/  
G70Q/G70VRU/D50Q, VPL-FE100U/  
FX200U and VPD-LE100

Connector: High Density 15-pin to local monitor (female)

High Density 15-pin to computer (male)

D-sub 9-pin to IFB-20 (female)

Length: 2 m (6.6 ft) overall, 0.2 m (0.7 ft) branch



\* Not available in some areas. For details, please contact your nearest Sony office.

## 2-5 Projector accessories

### SIC-S20/S21/S22

#### Mouse Cables for VPL-PX30/PX20/S900U/PX1

- Enables operation of a connected computer with the RM-PJM600/PJM610

Connector:

SIC-S20 for Macintosh

    Mini DIN 4-pin (male) to computer  
    Square 13-pin (male) to MOUSE port of a projector

SIC-S21 for Serial

    D-sub 9-pin (male) to Serial port  
    Square 13-pin (male) to MOUSE port of a projector

SIC-S22 for PS/2 (IBM PC/AT compatible) and Macintosh

    Mini DIN 6-pin (male) to PS/2 port  
    Square 13-pin (male) to MOUSE port of a projector

Length:

2 m (6.6 ft)



### SMF-400

#### Signal Cable for VPH-G90U/G70Q/ G70VRU/D50Q/D50HTU, VPL-FE100U/ FX200U/PX30/PX20/S900U/PX1/CS1 and VPD-LE100

Connector: HD D-sub 15-pin (male) to BNC x 5  
(male)

Length: 2 m (6.6 ft)



DISPLAY  
PRODUCTS

### SMF-401

#### Signal Cable for VPH-G90U/G70Q/ G70VRU/D50Q, VPL-FE100U/FX200U/ PX30/PX20/S900U/PX1 and VPD-LE100

Connector: HD D-sub 15-pin (male) to HD D-sub  
15-pin (male)

Length: 2 m (6.6 ft)



### SMF-402

#### Signal Cable for VPL-PX30/PX20/S900U/ PX1/CS1

Connector: HD D-sub 15-pin (male) to Phono x 3  
(male)

Length: 5 m (16.4 ft)



## 2-5 Projector accessories

### SMF-410

#### Monitor Cable for VPL-PX30/PX20/CS1

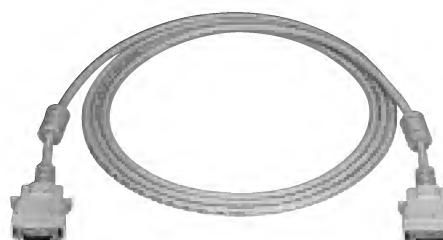
Connector: HD D-sub 15-pin (male) to  
HD D-sub 15-pin (male)  
Length: 2 m (6.6 ft)



### SMF-D102

#### Digital Signal Cable for VPL-PX30/PX20

Connector: DFP 20-pin (male) to  
DFP 20-pin (male)  
Length: 2 m (6.6 ft)



### SMF-D110

#### Digital Signal Cable for VPL-PX30/PX20

Connector: DFP 20-pin (male) to  
DFP 20-pin (male)  
Length: 10 m (32.8 ft)



### RM-PJ10

#### Remote Control Receiver for VPH-G90U/G70Q/G70VRU/ D50Q/D50HTU/V22U, VPL-FE100U/FX200U/S900U and VPD-LE100

Power requirements:  
DC 6 V  
Dimensions: 100 (W) × 50 (H) × 57 (D) mm  
(4 × 2 × 2 1/4 inches)  
(including Mounting Bracket)  
Mass: 0.1 kg (3.5 oz)  
(including Mounting Bracket)  
Supplied accessories:  
Remote control cable: 15 m (45 feet)  
Screws



## 2-5 Projector accessories

### RM-PJD50

#### Remote Commander for

VPH-G90U/D50HTU\*

- Card type design
- Power on/off and input selection operation
- Direct video memory selection

#### Power requirements:

CR2025 lithium battery (1)

Dimensions: 54 (W) × 86 (H) × 6.5 (D) mm

( $2\frac{1}{4}$  ×  $3\frac{1}{2}$  ×  $\frac{1}{4}$  inches)

Mass: Approx. 21.7 g (0.8 oz)



\*The RM-PJD50 is supplied with the VPH-D50HTU.

### RM-PJM610

#### Remote Commander for VPL-PX30\*/

PX20\*/S900U/PX1/CS1

- Wireless remote control unit for presentations
- Digital zoom, function and help keys
- Equipped with a laser pointer

#### Laser beam

Laser type: Class II

Wave length: 645 nm

Output: 1 mW

#### Power requirements:

DC 3 V (Size AA (R6) battery (2))

Dimensions: 51 (W) × 42 (H) × 162 (D) mm

( $2\frac{1}{8}$  ×  $6\frac{1}{2}$  ×  $6\frac{1}{4}$  inches)

Mass: Approx. 130 g (4.6 oz)



\*The RM-PJM610 is supplied with the VPL-PX30/PX20.

### RM-PJ1001

#### Remote Commander for

VPH-G90U\*/G70Q/G70VRU/D50Q/

D50HTU\*, VPL-FE100U\*/FX200U\*

and VPD-LE100\*

- Wired/wireless remote control unit for set-up and operation
- Full remote operation
- System set up (SYS SET) key for use with PJ COM (RS-485) system
- Keys can be illuminated for operation in dark rooms

#### Power requirements:

DC 5 V (Size AA (R6) battery (3))

Dimensions: 165 (W) × 35 (H) × 141 (D) mm

( $6\frac{1}{2}$  ×  $1\frac{7}{16}$  ×  $5\frac{3}{4}$  inches)

Mass: Approx. 285 g (10 oz)



\* The RM-PJ1001 is supplied with the VPH-G90U/D50HTU, VPL-FE100U/FX200U and VPD-LE100.

### RM-PJ3000S

#### Remote Commander for

VPH-G90U/G70Q/G70VRU/D50Q,

VPL-FE100U/FX200U and

VPD-LE100

- Wireless remote control unit for simple remote control
- Function keys can be illuminated for operation in dark rooms
- Equipped with a laser pointer for use in presentations

#### Laser beam

Laser type: Class II

Wave length: 645 nm

Output: 1 mW

#### Power requirements:

DC 3 V (Size AA (R6) battery (2))

Dimensions: 45 (W) × 24 (H) × 178 (D) mm

( $1\frac{13}{16}$  ×  $3\frac{1}{32}$  ×  $7\frac{1}{8}$  inches)

Mass: Approx. 93 g (3.3 oz)



## 2-5 Projector accessories

### VPS-50C\*

#### Portable Screen

	VPS-50C
Screen size	50-inch
Construction	Beaded glass flat screen
Dimensions	Folded: 870 (W) × 88 (H) × 80 (D) mm (34 3/8 × 3 1/2 × 3 1/4 inches) Assembled: 1131 (W) × 870 (H) × 240 (D) mm
Mass	2.3 kg (5 lb)



\* Not available in some areas. For details, please contact your nearest Sony office.

### VPS-120FH\*/100FH\*

#### Video Screen

	VPS-120FH	VPS-100FH
Screen size	120-inch	100-inch compatible
Construction	Beaded glass high-efficiency flat screen with winding mechanism	
Dimensions	2780(W) × 2545(H) mm (109 1/2 × 100 1/4 inches)	2200(W) × 1765(H) mm (86 3/4 × 69 1/2 inches)
Mass	21 kg (46 lb 5 oz)	8 kg (17 lb 10 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

## 2-5 Projector accessories

### PSS-10/70/90/610/722/2000

Suspension Support:

PSS-10 for PSS-70/90/722/2000

PSS-70 for VPH-G70Q/G70VRU/D50Q/D50HTU

PSS-90 for VPH-G90U

PSS-610 for VPL-PX30/PX20/VW10HT

PSS-722 for VPH-V20U

PSS-2000 for VPL-FE100U/FX200U

1. Direct installation on the ceiling – PSS-70/90/610/722/2000
2. Installation on the ceiling (height adjustable) – PSS-10 + PSS-70 or PSS-90 or PSS-722 or PSS-2000

Mass:

PSS-10: 10.3 kg (22 lb 11 oz)

PSS-70: 9 kg (19 lb 13 oz)

PSS-90: 15 kg (33 lb 11 oz)

PSS-610: 2.7 kg (5 lb 15 oz)

PSS-722: 1.8 kg (3 lb 15 oz)

PSS-2000: 5.5 kg (12 lb 2 oz)



PSS-10



PSS-70



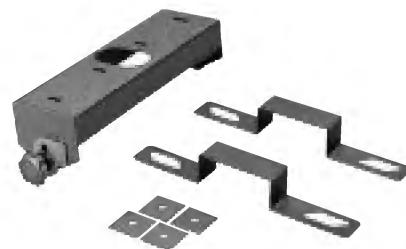
PSS-90



PSS-610



PSS-2000



PSS-722

## 2-5 Projector accessories

### PK-PJ500\*

**Projector Lamp (for replacement) for  
VPL-S500U/W400Q**  
•250W metal halide lamp

Dimensions: 104 (W) × 122 (H) × 115 (D) mm  
(4 $\frac{1}{8}$  × 4 $\frac{7}{8}$  × 4 $\frac{5}{8}$  inches)  
Mass: 390 g (14 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

### PK-PJ800\*

**Projector Lamp (for replacement) for  
VPL-S800U**  
•400W metal halide lamp

Dimensions: 140 (W) × 142 (H) × 147 (D) mm  
(5 $\frac{5}{8}$  × 5 $\frac{5}{8}$  × 5 $\frac{7}{8}$  inches)  
Mass: 820 g (1 lb 13 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

### PK-PJ1800\*

**Projector Lamp (for replacement) for  
VPD-S1800Q**  
•1kW Xenon lamp

Dimensions: 105 (W) × 156 (D) × 100 (H) mm  
(4 $\frac{1}{4}$  × 6 $\frac{1}{4}$  × 4 inches)  
Mass: Approx. 1900 g (4 lb 3 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

### LMP-600

**Projector Lamp (for replacement) for  
VPL-S900U**  
•120 W UHP compact lamp

Dimensions: 75 (W) × 105 (D) × 83.5 (H) mm  
(2 $\frac{5}{16}$  × 4 $\frac{1}{8}$  × 3 $\frac{5}{16}$  inches)  
Mass: Approx. 210 g (7.4 oz)



## 2-5 Projector accessories

### LMP-C120

Projector Lamp (for replacement) for

VPL-CS1

- 120 W UHP lamp

Dimensions: 65 (W) × 62.5 (H) × 91 (D) mm  
( $2\frac{5}{8}$  ×  $2\frac{1}{2}$  ×  $3\frac{5}{8}$  inches)

Mass: Approx. 164 g (6 oz)



### LMP-P120

Projector Lamp (for replacement) for

VPL-PX1

- 120 W UHP lamp

Dimensions: 75 (W) × 83.5 (H) × 105 (D) mm  
( $3 \times 3\frac{5}{8} \times 4\frac{1}{4}$  inches)

Mass: Approx. 210 g (7.4 oz)



DISPLAY  
PRODUCTS

### LMP-P200

Projector Lamp (for replacement) for

VPL-PX30/PX20/VW10HT

- 200 W UHP lamp

Dimensions: 74.5 (W) × 91.5 (H) × 107.5 (D) mm  
( $3 \times 3\frac{5}{8} \times 4\frac{1}{4}$  inches)

Mass: Approx. 280 g (10 oz)



### LMP-Q120

Quad Projector Lamp (for replacement)

for VPL-FE100U/FX200U

- Four 120 W UHP lamps

Dimensions: 220 (W) × 105 (H) × 147 (D) mm  
( $8\frac{3}{4} \times 4\frac{1}{4} \times 5\frac{7}{8}$  inches)

Mass: 1.4 kg (3 lb)



## 2-5 Projector accessories

### LMP-S120

**Projector Lamp (for replacement) for**

#### LMP-Q120

- 120 W UHP lamp

Dimensions: Approx. 70 (W) × 84 (H) × 65 (D) mm  
(Approx. 2 7/8 × 3 3/8 × 2 5/8 inches)

Mass: 140 g (4 oz)



### LMP-Q2000\*

**Quad Projector Lamp (for replacement)**

**for VPL-X2000U**

- Four 120 W UHP lamps

Dimensions: 220 (W) × 105 (H) × 147 (D) mm  
(8 3/4 × 4 1/4 × 5 7/8 inches)

Mass: 1.4 kg (3 lb)



\* Not available in some areas. For details, please contact your nearest Sony office.

### LMP-S2000\*

**Projector Lamp (for replacement) for**

#### LMP-Q2000

- 120 W UHP lamp

Dimensions: Approx. 70 (W) × 84 (H) × 65 (D) mm  
(2 7/8 × 3 3/8 × 2 5/8 inches)

Mass: 140 g (5 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

### LMP-L2000

**Projector Lamp (for replacement) for**

#### VPD-LE100

- Xenon lamp

Dimensions: 165 (W) × 165 (H) × 250 (D) mm  
(6 1/2 × 6 1/2 × 9 7/8 inches)

Mass: 3.4 kg (7 lb 4 oz)



## 2-5 Projector accessories

### SU-PJ2000

#### Projector Stand (for twin and triple stacking) for VPL-FE100U/FX200U

Dimensions: 840 (W) × 360 (H) × 840 (D) mm  
(33 1/8 × 14 1/4 × 33 1/8 inches)

Mass: Approx. 32 kg (70 lb 6 oz)



### VLC-600

#### Carrying Case for VPL-PX30/PX20/S900U

- Soft case with removable strap and grip
- Can store peripherals with projector

Dimensions: 358 (W) × 361 (H) × 138 (D) mm  
(14 1/8 × 14 1/8 × 6 5/8 inches)

Mass: Approx. 1.4 kg (3 lb 1 oz)



DISPLAY  
PRODUCTS

### VLC-SC50\*

#### Carrying Case for VPL-PX1

- Soft case with strap and easy opening double fasteners
- Can store projector, peripherals and a notebook PC

Dimensions: 320 (W) × 250 (H) × 200 (D) mm  
(12 5/8 × 9 7/8 × 7 7/8 inches)

Mass: Approx. 0.8 kg (1 lb 12 oz)



\* Not available in some areas. For details, please contact your nearest Sony office.

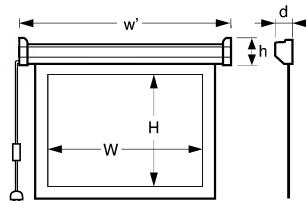
## 2-5 Projector accessories

### VPE/VPL/VPM series (by Aurora)

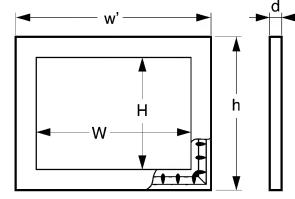
#### Video Screen

Type	Model name	Material	Screen size (W × H)mm	Dimensions (W × H × D)mm	Mass (kg)	Screen seam
Motor drive	VPE-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90.0 inches)	3455 × 150 × 118 (136 × 5.9 × 4.6 inches)	26	horizontal (1)
	VPE-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3862 × 150 × 118 (152 × 5.9 × 4.6 inches)	30	horizontal (1)
	VPE-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	5812 × 310 × 248 (228.8 × 12.2 × 9.8 inches)	129	horizontal (1)
	VPE-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	6238 × 310 × 248 (245.6 × 12.2 × 9.8 inches)	140	horizontal (1)
	VPE-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	6928 × 310 × 248 (272.8 × 12.2 × 9.8 inches)	150	horizontal (2)
Tension	VPL-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90 inches)	3448 × 2286 × 55 (135.8 × 90 × 2.2 inches)	36	vertical (1)
	VPL-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3854 × 2991 × 55 (151.7 × 117.7 × 2.2 inches)	41	vertical (1)
	VPL-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	4664 × 3648 × 55 (183.6 × 143.6 × 2.2 inches)	48	vertical (2)
	VPL-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	5070 × 3953 × 55 (199.6 × 155.6 × 2.2 inches)	53	vertical (2)
	VPL-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	5680 × 4410 × 55 (223.6 × 173.6 × 2.2 inches)	60	vertical (2)
Hang.up	VPM-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90 inches)	3292 × 2456 × 35 (129.6 × 96.7 × 1.4 inches)	9.5	horizontal (1)
	VPM-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3698 × 2761 × 35 (145.6 × 108.7 × 1.4 inches)	11	horizontal (1)
	VPM-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	4584 × 3488 × 35 (180.5 × 137.3 × 1.4 inches)	12	horizontal (1)
	VPM-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	5010 × 3813 × 35 (197.2 × 150.1 × 1.4 inches)	13	horizontal (1)
	VPM-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	5700 × 4350 × 35 (224.4 × 171.2 × 1.4 inches)	15	horizontal (2)

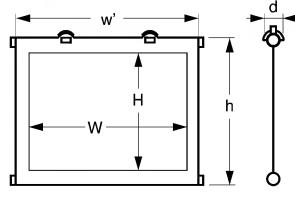
Motor drive



Tension



Hang-up



## 2-6 Projector lenses

### VPLL-FM20

#### Projection Lens for VPL-S900U

- Fixed short focus lens
- For rear projection

Lens: f24.24 mm/F3.0

Screen coverage:

50-200 inches

Throwing distance:

100-inch: 1800 mm

200-inch: 3300 mm

Dimensions: 120 (W) × 120 (H) × 204 (D) mm

(4¾ × 4¾ × 8⅓ inches)

Mass: Approx. 1.5 kg (3 lb 4 oz)



### VPLL-FM21

#### Projection Lens for VPL-PX30/PX20

- Fixed short focus lens

Lens: f24.5 mm/F2.0

Screen coverage:

40-300 inches

Throwing distance:

100-inch: 1800 mm

200-inch: 3690 mm

300-inch: 5580 mm

Dimensions: 140 (W) × 140 (H) × 233 (D) mm

(5½ × 5½ × 9¼ inches)

Mass: Approx. 1.9 kg (4 lb)



DISPLAY  
PRODUCTS

### VPLL-FM30

#### Projection Lens for VPL-S900U

- Fixed short focus lens

Lens: f37 mm/F3.5

Screen coverage:

40-280 inches

Throwing distance:

100-inch: 2810 mm

200-inch: 5680 mm

280-inch: 7960 mm

Dimensions: 120 (W) × 120 (H) × 209 (D) mm

(4¾ × 4¾ × 8¼ inches)

Mass: Approx. 2.1 kg (4 lb 10 oz)



### VPLL-ZM31

#### Projection Lens for VPL-PX30/PX20

- 1.1 times zoom short focus lens

Lens: f41.4-45.6/F1.9-2.0

Screen coverage:

40-300 inches

Throwing distance:

100-inch: 3150-3300 mm

200-inch: 6410-6710 mm

300-inch: 9680-10120 mm

Dimensions: 154 (W) × 154 (H) × 252 (D) mm

(6⅓ × 6⅓ × 10 inches)

Mass: 3.1 kg (6 lb 13 oz)



## 2-6 Projector lenses

### VPLL-ZM101

#### Projection Lens for VPL-PX30/ PX20/S900U

•1.5 times zoom long focus lens

Lens: f89-133.5 mm/F2.0-2.6

Screen coverage:  
40-300 inches

Throwing distance:  
VPL-PX30/PX20  
100-inch: 6810-10030 mm  
200-inch: 13840-20270 mm  
300-inch: 20870-30500 mm

VPL-S900U  
100-inch: 6870-10120 mm  
200-inch: 13960-20440 mm  
300-inch: 21040-30760 mm

Dimensions: 100 (W) × 100 (H) × 221.9 (D) mm  
(4 × 4 × 8 3/4 inches)

Mass: 1.8 kg (3 lb 15 oz)



### VPLL-2009

#### Projection Lens for VPL-FE100U/ FX200U

•Fixed short focus lens

Lens: f34.2 mm/F3.0

Screen coverage:  
VPL-FE100U (5:4):  
42-500 inches

VPL-FE100U (4:3):  
40-500 inches

VPL-FX200U:  
40-500 inches

Throwing distance:

VPL-FE100U (5:4)  
42-inch: 650 mm

100-inch: 1730 mm

300-inch: 5460 mm

VPL-FE100U (4:3)

40-inch: 660 mm

100-inch: 1860 mm

300-inch: 5830 mm

VPL-FX200U

40-inch: 640 mm

100-inch: 1800 mm

300-inch: 5670 mm

Dimensions: 160 (W) × 160 (H) × 307 (D) mm

(6 5/8 × 6 5/8 × 12 1/8 inches)

Mass: 4.2 kg (9 lb 4 oz)



### VPLL-2014

#### Projection Lens for VPL-FE100U/ FX200U

•Fixed short focus lens

Lens: f51.9 mm/F3.0

Screen coverage:

VPL-FE100U (5:4):  
42-500 inches

VPL-FE100U (4:3):  
40-500 inches

VPL-FX200U:  
40-500 inches

Throwing distance:

VPL-FE100U (5:4)  
42-inch: 1040 mm

100-inch: 2650 mm

300-inch: 8200 mm

VPL-FE100U (4:3)

40-inch: 1060 mm

100-inch: 2840 mm

300-inch: 8760 mm

VPL-FX200U

40-inch: 1030 mm

100-inch: 2760 mm

300-inch: 8520 mm

Dimensions: 160 (W) × 160 (H) × 294.5 (D) mm

(6 5/8 × 6 5/8 × 11 1/8 inches)

Mass: 4.9 kg (10 lb 12 oz)



### VPLL-2075

#### Projection Lens for VPL-FE100U/ FX200U

•Fixed long focus lens

Lens: f269.1 mm/F3.5

Screen coverage:

VPL-FE100U (5:4):  
82-500 inches

VPL-FE100U (4:3):  
80-500 inches

VPL-FX200U:  
80-500 inches

Throwing distance:

VPL-FE100U (5:4)  
100-inch: 14460 mm

200-inch: 28760 mm

300-inch: 43050 mm

VPL-FE100U (4:3)

100-inch: 15420 mm

200-inch: 30680 mm

300-inch: 45930 mm

VPL-FX200U

100-inch: 15000 mm

100-inch: 29830 mm

300-inch: 44660 mm

Dimensions: 158 (W) × 115 (H) × 263.5 (D) mm

(6 1/4 × 4 5/8 × 10 5/8 inches)

Mass: 3.1 kg (6 lb 13 oz)



## 2-6 Projector lenses

### VPLL-3050

#### Projection Lens for VPL-FE100U

- Fixed long focus lens

Lens: f181.2 mm/F2.0

Screen coverage:

(5:4): 84-500 inches

(4:3): 80-500 inches

Throwing distance:

(5:4)

100-inch: 14460 mm

200-inch: 28760 mm

300-inch: 43050 mm

(4:3)

100-inch: 15420 mm

200-inch: 30680 mm

300-inch: 45930 mm

Dimensions: 158 (W) × 117 (H) × 211 (D) mm  
( $6\frac{1}{4} \times 4\frac{5}{8} \times 8\frac{3}{8}$  inches)

Mass: 3.4 kg (7 lb 7 oz)



### VPLL-Z2019

#### Projection Lens for VPL-FX200U

- 1.3 times zoom standard focus lens

Lens: f71.0-92.3mm/F2.5-3.0

Screen coverage:

40-500 inches

Throwing distance:

40-inch: 1490-1890 mm

100-inch: 3870-4880 mm

300-inch: 11820-14840 mm

Dimensions: 158 (W) × 115 (H) × 211 (D) mm

( $6\frac{1}{4} \times 4\frac{5}{8} \times 8\frac{3}{8}$  inches)

Mass: 2.4 kg (5 lb 4 oz)



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### VPLL-Z2025

#### Projection Lens for VPL-FE100U/ FX200U

- 1.6 times zoom long focus lens

Lens: f92.1-147.3mm/F2.6-3.5

Screen coverage:

VPL-FE100U (5:4):

84-500 inches

VPL-FE100U (4:3):

80-500 inches

VPL-FX200U:

80-500 inches

Throwing distance:

VPL-FE100U (5:4)

100-inch: 4830-7460 mm

200-inch: 9850-15090 mm

300-inch: 14860-22720 mm

VPL-FE100U (4:3)

100-inch: 5170-7970 mm

200-inch: 10520-16120 mm

300-inch: 15870-24260 mm

VPL-FX200U

100-inch: 5020-7750 mm

200-inch: 10220-15660 mm

300-inch: 15430-23580 mm

Dimensions: 158 (W) × 115 (H) × 277 (D) mm

( $6\frac{1}{4} \times 4\frac{5}{8} \times 11$  inches)

Mass: 3.8 kg (8 lb 6 oz)



### VPLL-Z2039

#### Projection Lens for VPL-FE100U/ FX200U

- 1.5 times zoom long focus lens

Lens: f144.4-216.5mm/F2.8-3.6

Screen coverage:

VPL-FE100U (5:4):

84-500 inches

VPL-FE100U (4:3):

80-500 inches

VPL-FX200U:

80-500 inches

Throwing distance:

VPL-FE100U (5:4)

100-inch: 7690-11060 mm

200-inch: 15560-22280 mm

300-inch: 23420-33490 mm

VPL-FE100U (4:3)

100-inch: 8220-11810 mm

200-inch: 16610-23780 mm

300-inch: 25000-35750 mm

VPL-FX200U

100-inch: 7990-11480 mm

200-inch: 16150-23120 mm

300-inch: 24300-34760 mm

Dimensions: 158 (W) × 118.5 (H) × 321 (D) mm

( $6\frac{1}{4} \times 4\frac{3}{4} \times 12\frac{1}{4}$  inches)

Mass: 4.1 kg (9 lb)



## 2-6 Projector lenses

### VPLL-Z3020

#### Projection Lens for VPL-FE100U

•1.3 times zoom standard focus lens

Lens: f74.5-97.0 mm/F2.0-2.4

Screen coverage:

(5:4): 42-500 inches

(4:3): 40-500 inches

Throwing distance:  
(5:4)

100-inch: 3900-4920 mm  
200-inch: 7920-9960 mm  
300-inch: 11940-15000 mm

(4:3)

100-inch: 4170-5260 mm  
200-inch: 8460-10040 mm  
300-inch: 12750-16020 mm

Dimensions: 158 (W) × 115 (H) × 222.5 (D) mm

(6 1/4 × 4 5/8 × 8 7/8 inches)

Mass: 2.7 kg (5 lb 15 oz)



### VPDL-Z1014

#### Projection Lens for VPD-LE100

•1.3 times zoom short focus lens

Lens: f33.5-44.6 mm/F3.0

Screen coverage:

70-700 inches

Throwing distance:

(5:4)

100-inch: 2830-3770 mm  
200-inch: 5760-7670 mm  
300-inch: 8690-11580 mm

(4:3)

100-inch: 3030-4030 mm  
200-inch: 6150-8190 mm  
300-inch: 9270-12360 mm

Dimensions: 184 (W) × 184 (H) × 329 (D) mm

(7 1/4 × 7 1/4 × 13 inches)

Mass: 8.5 kg (18 lb 11 oz)



### VPDL-Z1019

#### Projection Lens for VPD-LE100

•1.2 times zoom standard focus lens

Lens: f44.6-54.5 mm/F3.0

Screen coverage:

70-700 inches

Throwing distance:

(5:4)

100-inch: 3840-4660 mm  
200-inch: 7740-9480 mm  
300-inch: 11630-14190 mm

(4:3)

100-inch: 4100-4980 mm  
200-inch: 8250-10060 mm  
300-inch: 12410-15150 mm

Dimensions: 184 (W) × 184 (H) × 335.5 (D) mm  
(7 1/4 × 7 1/4 × 13 1/4 inches)

Mass: 6.5 kg (14 lb 5 oz)



### VPDL-Z1023

#### Projection Lens for VPD-LE100

•1.6 times zoom middle focus lens

Lens: f54.5-87.0 mm/F3.0

Screen coverage:

70-700 inches

Throwing distance:

(5:4)

100-inch: 4610-7390 mm  
200-inch: 9380-15000 mm  
300-inch: 14150-22600 mm

(4:3)

100-inch: 4930-7900 mm  
200-inch: 10010-16010 mm  
300-inch: 15100-24120 mm

Dimensions: 184 (W) × 184 (H) × 285.7 (D) mm  
(7 1/4 × 7 1/4 × 11 1/4 inches)

Mass: 6.5 kg (14 lb 5 oz)



## 2-6 Projector lenses

### VPDL-Z1037

#### Projection Lens for VPD-LE100

•1.8 times zoom long focus lens

Lens: f87.0-152.3 mm/F3.0

Screen coverage:  
70-700 inches

Throwing distance:	
(5:4)	100-inch: 7430-13040 mm 200-inch: 15050-26370 mm 300-inch: 22670-39700 mm
(4:3)	100-inch: 7940-13930 mm 200-inch: 16070-28150 mm 300-inch: 24200-42360 mm

Dimensions: 184 (W) × 184 (H) × 383 (D) mm

(7 1/4 × 7 1/4 × 15 1/8 inches)

Mass: 8.5 kg (18 lb 11 oz)



## 3-1 Projection wall units

### RVP-411DS\*1 (NTSC/PAL/SECAM/NTSC4.43)

• 41-inch projection wall unit for various projection wall applications • Lightweight (75 kg) and a short cabinet depth (1044 mm) for easier handling and stacking • Input capability: double scan video signals and computer signals which conform to VGA mode 3 (31.469 kHz/59.94 Hz) standard • Optional Video Input Board PWB-411D available for composite, Y/C, component and 15 kHz RGB video signals • Double scan capability for flicker free signal reproduction when used with the optional PWB-411D • Adopts optical coupling CRT for high contrast image display • Color temperature selection: 3200 K/6500 K/9300 K/User preset (factory preset: 6500 K) • Two-part construction enables the CRT assembly, together with the electronic chassis, to be easily separated from the cabinet • Wide viewing angle: horizontal 160 degrees, vertical 60 degrees • Optional Rear Screens VPS-415RF/411RF with ultra-thin screen surround are available • Optional Projection Wall Chassis CHP-411D available for system versatility • Optional wired/wireless remote control unit RM-PJ1292\*2 with address function for all projector control functions, including input selection, picture control, RGB size and shift and centering controls

DISPLAY  
PRODUCTS

Supplied accessories: Remote Commander Cable (1.2 m)  
AC Power Cord  
Operation Manual

Optional accessories\*1: Rear Screen with 0.2 mm screen surround  
VPS-415RF  
Rear Screen with 1.7 mm screen surround  
VPS-411RF  
System Control Kit PWK-411D  
Video Input Board PWB-411D  
Base Stand PWR-B411A  
Position Beam PWR-P412A (for dual mount)  
Position Beam PWR-P413A (for triple mount)  
Remote Control Receiver RM-PJ10  
Remote Cable RCC-1W2 (for RS-422)

### Specifications

#### Optical

Projection System: 3 picture tubes, 3 lenses, rear projection  
Picture Tube: 7.7-inch (5.5-inch raster size) high-luminance monochrome optical coupled with sealed coolant  
Projection Lens: High performance lens, F1.1/77 mm  
Screen: Optional (See Optional Accessories)  
Light Output\*3: ANSI\*4: 280 cd/m<sup>2</sup> (fH: 31.5 kHz, fV: 60 Hz)  
Color temperature: 6500 K  
Peak white: 2056 cd/m<sup>2</sup>

#### Electrical

Scan Frequency: 31.25 kHz/50 Hz/1:1, 31.25 kHz/100 Hz/2:1  
31.5 kHz/60 Hz/1:1, 31.5 kHz/120 Hz/2:1  
(Horizontal Frequency/Vertical Frequency/Interlace Ratio)  
Resolution: 800 × 580 dots (measured at RGB 31.25 kHz input)  
RGB Bandwidth: 30 MHz (-3 dB)  
Test Signal: Cross hair, Hatch (fine), Diagonal hatch, Circle hatch, Dot pattern, H pattern, ME, Window, All white (100 IRE), Black  
Input: RGB: BNC × 5  
31 kHz:  
R: 0.7 Vp-p ±2 dB, 75 Ω  
G: 0.7 Vp-p ±2 dB, 75 Ω  
G on sync: 1.0 Vp-p ±2 dB, 75 Ω,  
sync negative  
B: 0.7 Vp-p ±2 dB, 75 Ω  
H sync/C sync: 1.0 to 4.0 Vp-p, 75 Ω,  
positive/negative  
V sync: 1.0 to 4.0 Vp-p, 75 Ω,  
positive/negative



15 kHz:

\*Available when an optional Video Input Board PWB-411D is inserted. See PWB-411D specifications.

Control-S:

Mini jack (mono)  
RS-422: D-sub 9-pin connector (female)  
Linked ABL: Mini jack (mono)

Output:

Mini jack (mono)  
RS-422: D-sub 9-pin connector (female)  
Linked ABL: Mini jack (mono)

#### General

Power Supply: AC 120 V, 50/60 Hz  
Power Consumption: 100-120 V, 2.8 A, 300 W  
Dimensions (max.): 830 (W) × 641 (H) × 1044 (D) mm  
(32<sup>3</sup>/<sub>4</sub> × 25<sup>1</sup>/<sub>4</sub> × 41<sup>1</sup>/<sub>8</sub> inches)  
Mass: 75 kg (165 lb 6 oz)

\*1 Some items are not available in some areas. For details, please contact your nearest Sony office.

\*2 RM-PJ1292 is included in the PWK-411D.

\*3 In the case of the RVP-411DS with the VPS-411RF.

\*4 ANSI is a measuring method of the American National Standards Institute ANSI IT7.215.

## 3-1 Projection wall units

### RVP-511DS\*1 (NTSC/PAL/SECAM/NTSC<sub>4,43</sub>)

•50-inch projection wall unit for various projection wall applications •Lightweight (88 kg) and a short cabinet depth (1236 mm) for easier handling and stacking •Input capability: double scan video signals and computer signals which conform to VGA mode 3 (31.469 kHz/59.94 Hz) standard •Optional Video Input Board PWB-411D available for composite, Y/C, component and 15 kHz RGB video signals •Double scan capability for flicker free signal reproduction when used with the optional PWB-411D •Adopts optical coupling CRT for high contrast image display •Color temperature selection: 3200 K/6500 K/9300 K/User preset (factory preset: 6500 K) •Two-part construction enables the CRT assembly, together with the electronic chassis, to be easily separated from the cabinet •Wide viewing angle: horizontal 150 degrees, vertical 70 degrees •Optional Rear Screens VPS-515RF/511RF with ultra-thin screen surround are available •Optional Projection Wall Chassis CHP-411D available for system versatility •Optional wired/wireless remote control unit RM-PJ1292\*2 with address function for all projector control functions, including input selection, picture control, RGB size and shift and centering controls

Supplied accessories: Remote Commander Cable (1.2 m)  
AC Power Cord  
Operation Manual  
Optional accessories\*1: Rear Screen with 0.2 mm screen surround  
VPS-515RF  
Rear Screen with 1.7 mm screen surround  
VPS-511RF  
System Control Kit PWK-411D  
Video Input Board PWB-411D  
Base Stand PWR-B511A  
Position Beam PWR-P512A (for dual mount)  
Position Beam PWR-P513A (for triple mount)  
Remote Control Receiver RM-PJ10  
Remote Cable RCC-1W2 (for RS-422)



DISPLAY  
PRODUCTS

### Specifications

#### Optical

Projection System: 3 picture tubes, 3 lenses, rear projection  
Picture Tube: 7.7-inch (5.5-inch raster size) high-luminance monochrome optical coupled with sealed coolant  
Projection Lens: High performance lens, F1.1/77 mm  
Screen: Optional (See Optional Accessories)  
Light Output\*3: ANSI\*4: 125 cd/m<sup>2</sup> (fH: 31.5 kHz, fV: 60 Hz)  
Color temperature: 6500 K  
Peak white: 977 cd/m<sup>2</sup>

#### Electrical

Scan Frequency: 31.25 kHz/50 Hz/1:1, 31.25 kHz/100 Hz/2:1  
31.5 kHz/60 Hz/1:1, 31.5 kHz/120 Hz/2:1  
(Horizontal Frequency/Vertical Frequency/Interlace Ratio)  
Resolution: 1000 × 580 dots (measured at RGB 31.25 kHz input)  
RGB Bandwidth: 30 MHz (-3 dB)  
Test Signal: Cross hair, Hatch (fine), Diagonal hatch, Circle hatch, Dot pattern, H pattern, ME, Window, All white (100 IRE), Black

Input: RGB: BNC × 5

31 kHz:  
R: 0.7 Vp-p ±2 dB, 75 Ω  
G: 0.7 Vp-p ±2 dB, 75 Ω  
G on sync: 1.0 Vp-p ±2 dB, 75 Ω,  
sync negative  
B: 0.7 Vp-p ±2 dB, 75 Ω  
H sync/C sync: 1.0 to 4.0 Vp-p, 75 Ω,  
positive/negative  
V sync: 1.0 to 4.0 Vp-p, 75 Ω,  
positive/negative

15 kHz:

\*Available when an optional Video Input Board PWB-411D is inserted. See PWB-411D specifications.

Control-S:  
Remote:

Mini jack (mono)  
RS-422: D-sub 9-pin connector (female)  
Linked ABL: Mini jack (mono)

Output:  
Control-S:  
Remote:

Mini jack (mono)  
RS-422: D-sub 9-pin connector (female)  
Linked ABL: Mini jack (mono)

#### General

Power Supply: AC 120 V, 50/60 Hz  
Power Consumption: 100-120 V, 2.8 A, 300 W  
Dimensions (max.): 1018 (W) × 781 (H) × 1236 (D) mm  
(40<sup>1</sup>/<sub>8</sub> × 30<sup>3</sup>/<sub>4</sub> × 48<sup>3</sup>/<sub>4</sub> inches)  
Mass: 88 kg (194 lb)

\*1 Some items are not available in some areas. For details, please contact your nearest Sony office.

\*2 RM-PJ1292 is included in the PWK-411D.

\*3 In the case of the RVP-511DS with the VPS-511RF.

\*4 ANSI is a measuring method of the American National Standards Institute ANSI IT7.215.

## 3-2 Projection wall accessories

### VPS-515RF\*/415RF\*

- Screen with ultra-thin 0.2 mm screen surround for RVP-511DS/411DS
- Suitable for permanent applications

Dimensions:

VPS-515RF: 1011.4(W) × 84.2(D) × 760.4(H) mm  
(39 $\frac{7}{8}$  × 3 $\frac{3}{8}$  × 30 inches)

VPS-415RF: 823.4(W) × 84.2(D) × 620.4(H) mm  
(32 $\frac{1}{2}$  × 3 $\frac{3}{8}$  × 24 $\frac{1}{2}$  inches)

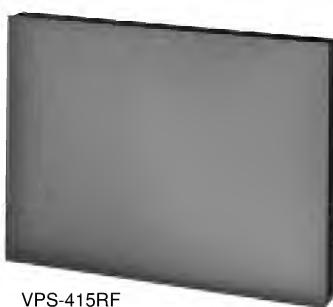
Mass:

VPS-515RF: 5.2 kg (11 lb 7 oz)

VPS-415RF: 3.7 kg (8 lb 3 oz)



VPS-515RF



VPS-415RF

\* Not available in some areas. For details, please contact your nearest Sony office.

### VPS-511RF\*/411RF\*

- Screen with durable 1.7 mm screen surround for RVP-511DS/411DS
- Suitable for general applications

Dimensions:

VPS-511RF: 1011 (W) × 87.1(D) × 760 (H) mm  
(39 $\frac{7}{8}$  × 3 $\frac{1}{2}$  × 30 inches)

VPS-411RF: 823 (W) × 87.1(D) × 620 (H) mm  
(32 $\frac{1}{2}$  × 3 $\frac{1}{2}$  × 24 $\frac{1}{2}$  inches)

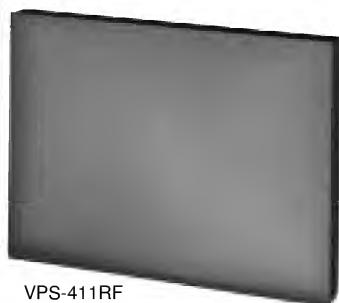
Mass:

VPS-511RF: 7.9 kg (17 lb 7 oz)

VPS-411RF: 6.2 kg (13 lb 11 oz)



VPS-511RF



VPS-411RF

\* Not available in some areas. For details, please contact your nearest Sony office.

### PWR-B511A\*1/B411A\*1

#### Installation Stand for RVP-511DS/411DS

- Base stand for the RVP-511DS/411DS with casters and height-adjuster
- For up to 8 (PWR-B511A for RVP-511DS) or 10 (PWR-B411A for RVP-411DS) vertical stacks\*2

Dimensions: PWR-B511A: 878 (W) × 587.7 (H) × 1126 (D) mm  
(34 $\frac{5}{8}$  × 23 $\frac{1}{4}$  × 44 $\frac{3}{8}$  inches)

PWR-B411A: 690 (W) × 587.7 (H) × 934 (D) mm  
(27 $\frac{1}{4}$  × 23 $\frac{1}{4}$  × 36 $\frac{7}{8}$  inches)

Mass: PWR-B511A: 50 kg (110 lb 4 oz)  
PWR-B411A: 44 kg (97 lb)



PWR-B511A



PWR-B411A

\*1 Not available in some areas. For details, please contact your nearest Sony office.  
\*2 In some cases, reinforcement against earthquakes may be required.

### PWR-P512A\*/P513A\*/P412A\*/P413A\*

#### Position Beams for RVP-511DS/411DS

- A pair of position beams for dual or double mount horizontally of RVP-511DS/411DS
- Can be utilized in combination with other PWR-P513A/P512A/P412A/P413A beams for more than triple mount.
- PWR-P512A for dual mount of the RVP-511DS
- PWR-P513A for triple mount of the RVP-511DS
- PWR-P412A for dual mount of the RVP-411DS
- PWR-P413A for triple mount of the RVP-411DS

Dimensions: PWR-P512A: 1940(W) × 80(H) × 80(D) mm  
(76 $\frac{1}{2}$  × 3 $\frac{1}{4}$  × 3 $\frac{1}{4}$  inches)

PWR-P513A: 2952(W) × 80(H) × 80(D) mm  
(116 $\frac{1}{4}$  × 3 $\frac{1}{4}$  × 3 $\frac{1}{4}$  inches)

PWR-P412A: 1564(W) × 80(H) × 80(D) mm  
(61 $\frac{5}{8}$  × 3 $\frac{1}{4}$  × 3 $\frac{1}{4}$  inches)

PWR-P413A: 2388(W) × 80(H) × 80(D) mm  
(94 $\frac{1}{8}$  × 3 $\frac{1}{4}$  × 3 $\frac{1}{4}$  inches)

Mass:

PWR-P512A: 24 kg (52 lb 15 oz)

PWR-P513A: 36 kg (79 lb 6 oz)

PWR-P412A: 20 kg (44 lb 1 oz)

PWR-P413A: 30 kg (66 lb 2 oz)



PWR-P513A



PWR-P412A

\*1 Not available in some areas. For details, please contact your nearest Sony office.

## 3-2 Projection wall accessories

### PWB-411D\*

#### Composite Video Input Board for RVP-511DS/411DS

- Accepts composite, Y/C, component and 15 kHz RGB video signals
- Compatible with NTSC/PAL/SECAM/NTSC<sub>4,43</sub>
- Includes field doubling circuit

Input

Composite video:

BNC × 1

1.0 Vp-p, sync negative, 75 Ω

Y/C:

BNC × 2  
Y (luminance): 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
C (chrominance): 0.286 Vp-p ±2 dB, 75 Ω (NTSC), 0.3 Vp-p ±2 dB, 75 Ω (PAL)

RGB/component:

BNC x5  
R/R-Y: 0.7 Vp-p ±2 dB, 75 Ω  
G: 0.7 Vp-p ±2 dB, 75 Ω  
G on sync/Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω  
B/B-Y: 0.7 Vp-p ±2 dB, 75 Ω  
H sync/C sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative  
V sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative



\* Not available in some areas. For details, please contact your nearest Sony office.

### PWK-411D\*

#### System Control Kit for

#### RVP-511DS/411DS

Includes accessories for system control:

- Remote Commander RM-PJ1292
  - Wired/wireless remote control unit
  - Full remote operation
  - Function keys can be illuminated for operation in dark rooms
- SIRCS Cable (10m)
- AA size Battery (3)
- System Manual



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RM-PJ1292

\* Not available in some areas. For details, please contact your nearest Sony office.

### CHP-411D\*

#### Projection Wall Chassis for

#### RVP-511DS/411DS

- Provides flexibility in various applications
- For added flexibility, can be combined with the RVP-511DS/411DS cabinet
- Can be used as a back-up chassis unit for RVP-511DS/411DS

Mass: 48kg (105 lb 13 oz)

Dimensions: 671 (W) × 469 (H) × 450 (D) mm  
(26 1/2 × 18 1/2 × 17 3/4 inches)

Supplied accessories:

AC Power Cord

Remote Control Cable (1.0 m)

Operation Manual



\* Not available in some areas. For details, please contact your nearest Sony office.

### RM-PJ10

#### Remote Control Receiver for RVP-511DS/411DS

Power requirements:

DC 6 V

Dimensions: 100 (W) × 50 (H) × 57 (D) mm  
(4 × 2 × 2 1/4 inches)  
(including Mounting Bracket)

Mass: 0.1 kg (3.5 oz)  
(including Mounting Bracket)

Supplied accessories:

Remote Control Cable: 15 m (45 feet)

Screws



**ADN-8080** (NTSC/PAL/SECAM)**JJTRON Display System**

- 16:9 aspect, 80-inch LED-based display for indoor advertising • 8 mm pitch Surface Mounted Device type LEDs, with each pixel made up of individual R, G and B LEDs
- High brightness of 1,000 cd/m<sup>2</sup> for indoor use • 224 x 120 pixel resolution • Signal processor and screen in one "Plug and Play" system • High contrast and reliability assured with the "Black Mask" on the screen surface • Lightweight and compact • Full 10-bit digital processing (1024 color gradation)
- Advanced color reproduction with the color compensation circuit • On-screen menu for adjustment/setting • Various remote control capabilities: supplied remote control unit RM-JJ100, Control S and RS-422

Supplied accessories: Remote Commander RM-JJ100

Optional accessories: Remote Commander Cable (15 m)

Video Input Board BKJ-100

Remote Control Receiver RM-PJ10

**Specifications****Picture performance**

Device: Full color one-chip SMD type LED

Pixel pitch: 8 mm × 8 mm

Viewable picture area: 1792 (W) × 960 (H) mm (70½ × 37⅞ inches)  
2033 mm (measured diagonally) (80 inches)

Aspect ratio: 16:9

Color system: NTSC/PAL/SECAM automatic switching  
(When BKJ-100 is attached)

Brightness: 1,000 cd/m<sup>2</sup> (white peak initial value)

Pixel density: 15,625 pixels/m<sup>2</sup>

Number of pixels (RGB trio): 224 (W) × 120 (H) = 26,880 dots

color temperature: 7000 K

Signal processing: Full 10 bit

Viewing angle: Horizontal 145°

Vertical 145°

LED half brightness period:

40000 H (Video), 70000 H (All white)

**General**

Dimensions: 1880 (W) × 1060 (H) × 260 (D) mm (approx.)  
(74⅛ × 41⅓ × 10⅓ inches)

Current consumption: Max. 12 A

Power requirements: AC 200 to 240 V ±10%, 50/60 Hz

Mass: 110 kg (approx.) (50 lbs)

Waterproofing: Not applicable (indoor use only)

Operating temperature: 0 to 40 °C (32 to 104 °F)

Operating humidity: 35 to 85% (without condensation)

Storage temperature: -20 to 60 °C (-4 to 140 °F)

Storage humidity: 10 to 90% (without condensation)

**Input****INPUT A**

Frequency (fH/fV): 31.25 kHz/50 Hz, 31.5 kHz/60 Hz

Double scanned RGB: BNC × 5

R: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

G: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

Sync on G: 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated

B: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

**HD/COMP SYNC**

Composite sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

Horizontal sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

**VD**

Vertical sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

**Remote**

Control S IN/OUT: Mini jack, 5.0 Vp-p

RS-422 IN/OUT: D-sub 9-pin (female)

**INPUT B (when BKJ-100 is attached)**

Frequency (fH/fV): 15.625 kHz/50 Hz, 15.75 kHz/60 Hz

Composite video: BNC × 1, 1.0 Vp-p, sync negative, 75 Ω terminated

Analog RGB/YUV: BNC × 5

R/R-Y: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

G: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

Sync on G/Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω terminated

B/B-Y: 0.7 Vp-p ±2 dB positive, 75 Ω terminated

**HD/COMP SYNC**

Composite sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

Horizontal sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

**VD**

Vertical sync: 1.0 to 4.0 Vp-p sync positive/negative, 75 Ω terminated

**Regulation compliance**

UL (1950), c-UL (CSA C 22.2 No. 950),  
TUV (EN 60950), FCC Class A, IC Class A,

CE Class B, C-Tick, VCCI Class A, JEIDA

## 4-2 JJTRON accessory

### BKJ-100

#### JJTRON Accessory Board

- Video input board for ADN-8080
- Composite, YUV, RGB inputs

Dimensions: 41.5 (W) × 187 (H) × 55 (D) mm  
( $1\frac{1}{16}$  ×  $7\frac{5}{8}$  ×  $2\frac{1}{4}$  inches)

Mass: 200 g (7 oz)



### RM-PJ10

#### Remote Control Receiver for ADN-8080

Power requirements:

DC 6 V

Dimensions: 100 (W) × 50 (H) × 57 (D) mm  
( $4 \times 2 \times 2\frac{1}{4}$  inches)

(including Mounting Bracket)

Mass: 0.1 kg (3.5 oz)  
(including Mounting Bracket)

Supplied accessories:

Remote Control Cable: 15 m (45 feet)  
Screws



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## 5. Other

### DSC-1024HD

#### Digital Scan Converter

- Versatile upward and downward digital scan converter
- Input accepted in the 15.6 to 70 kHz horizontal frequency range and the 50 to 120 Hz vertical frequency range and output at an industry standard 15.6 kHz, 31.5 kHz, 33.75 kHz (1080I\*), 37 kHz, 48 kHz or 64 kHz frequency
- Built-in transcoder for universal conversions between video signal formats • Genlock function is available • PAL/NTSC conversion capability • Scan doubler capability • Automatic input signal recognition • Variable offset sampling and high-density vertical interpolation capability for conversion resolutions • Adjustable aspect ratios • Built-in test pattern generator • Zoom, pan and freeze frame functions provided for easy operation • On-screen display for adjustment/operation

\* When a 1080I signal is output, a fV (60 Hz/59.94 Hz) is selectable on the on-screen display menu.

Supplied accessories: D-sub 15-pin to 5 BNC cable (6 ft.)

Operation Manual

Optional accessories: Mounting Bracket MB-510

Signal Cable SMF-400/401

Remote Commander RM-854/PJ1292/PJ1001, etc.



#### Specifications

##### General

Power requirements: AC 100 to 120V, 0.4 A (max.), 50/60 Hz  
AC 220 to 240 V, 50/60 Hz

Power consumption: 30 W (max. power on), 3 W (typical power off)

Operating temperature: 0 to 35 °C (50 to 96 °F)

Dimensions: 424 (W) × 44 (H) × 354 (D) mm  
(16 1/4 × 1 3/4 × 14 inches)

Mass: 4.1 kg (9 lb 1 oz)

##### Input connector

Video 1: Composite: Loop-through BNC  
S Video: Loop-through Mini DIN 4-pin  
Video 2: Composite (composite/-/), Component (G/B/R, Y/B-Y/R-Y): Loop-through  
D-sub 15-pin  
Video 3: Component (G/B/R, Y/B-Y/R-Y): Loop-through  
D-sub 15-pin

Audio1/2/3: L/R RCA jack

##### Output connector

Video out: Composite: BNC  
S Video: Mini DIN 4-pin  
Component (G, B, R, B-Y/R-Y):  
D sub 15-pin  
Audio: L/R RCA jack

**Signal level**

Composite: 1.0 Vp-p (typical), (Video 1: Automatic 75 Ω termination, Video 2: 75 Ω/Hi-Z)  
S Video: Y: 1.0 Vp-p (typical), sync negative  
C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) (typical)  
Automatic 75 Ω termination

Component: G/B/R input: 0.714 Vp-p (typical) (Video 2: auto sync, Video 3: sync on G/external sync, switchable), 75 Ω/Hi-Z  
HV.sync/c.sync: 1.0 to 5.0 Vp-p  
G/B/R output: 0.714 Vp-p (typical) (with external sync), 75 Ω (typical)  
HV.sync/c.sync: TTL  
Y/B-Y/R-Y input: 0.7 Vp-p (typical) (NTSC/PAL, sync on Y), 75 Ω/Hi-Z  
Y/B-Y/R-Y output: 0.7 Vp-p (typical) (with sync on Y), 75 Ω (typical)

##### Format conversion

Capture range:  
Sampling rate:  
fH: 15.6 to 70 kHz, fV: 50 to 120 Hz  
14.3 to 40 MHz offset phase max.  
(Equivalent to 80MHz sampling)

Output pixel clock:  
Line doubler:  
Genlock

Reference: Black/burst signal on VIDEO1 input  
Applicable to NTSC/PAL outputs only  
Genlock ON/OFF, SCH adjustment  
Picture adjustment:  
CONTRAST/PHASE (except for GBR/YBR/PAL)/  
CHROMA (except for GBR)  
SIZE/CENTER/ZOOM (<math>\times 2, \times 3, \times 4</math>)/APERTURE  
(ON/OFF)/STILL (ON/OFF)

##### Regulation compliance

UL mark (UL-1950)/FCC 15-J class B  
CSA mark (C22.2 No. 950)/IC class B